

TSUBAKI

SPROCKETS & COUPLINGS

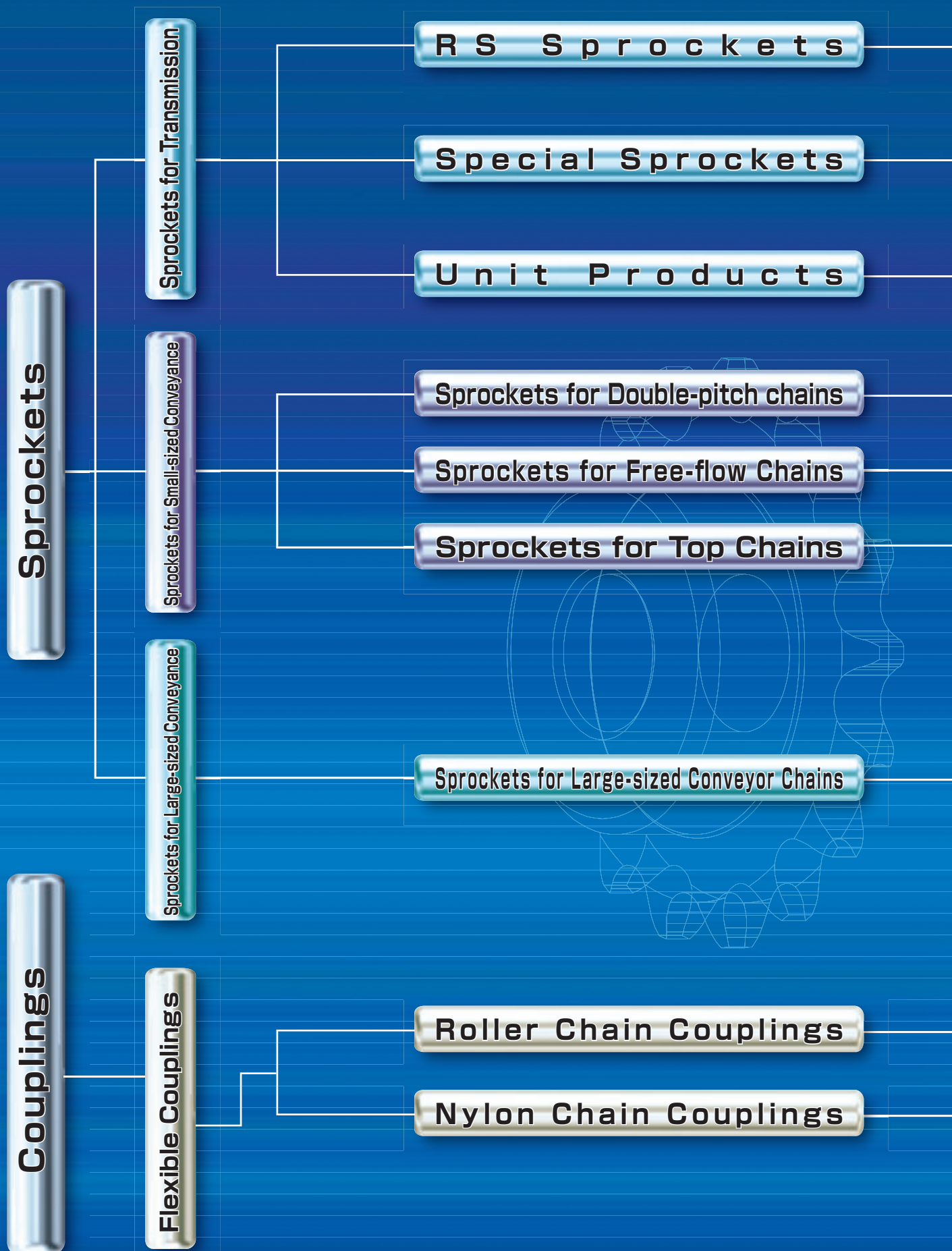
TRANSMISSION, SMALL-SIZED CONVEYANCE,
& LARGE-SIZED CONVEYANCE APPLICATIONS

**FULL
LINE UP**

COMPREHENSIVE
VERSION

Catalog 1E

TSUBAKI SPROCKETS & COUPLINGS



Our Mission

We will provide best value products and services to the customers around the world in the field of "ON-SHAFT PARTS" under the name of TSUBAKI.

Our Vision

To be a leading company in the fields of sprockets and related business.

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ISO 9001 and 14001 Certification

TSUBAKI must provide products and services of promised quality at any time in this age, when society attaches importance to quality. TSUBAKI's resolution was materialized with the acquisition of ISO 9001 and ISO 14001 certification as international standards. This means that TSUBAKI's organization that maintains quality and strives for environmental preservation was accepted in the world. TSUBAKI always promises the supply of reliable quality products and satisfying fine services.

Environmentally-resistant Series

Products made of excellent corrosion-resistant stainless steel.
Products made of engineering plastics that can be operated with no lubrication.

Corresponding Models

- Standard pilot bore series of RS sprockets (P.91)
- Sprockets for double-pitch chain applications (P.137)



Fit-bore Series

Quick production finished with bore and keyway and provided with setscrews.

Corresponding Models

- Standard pilot bore series of RS sprockets (P.59)
- Sprockets for double-pitch chain applications (P.132)



Lock Series (S-N type)

Sprockets can be attached to shafts without using keys.

Corresponding Models

- Standard pilot bore series of RS sprockets (P.66)
- Sprockets for double-pitch chain applications (P.133)
- Sprockets for dedicated to small-sized conveyance chain applications (P.142)
- Sprockets for large-sized conveyor chain applications (P.171)



Standard Pilot Bore Series of RS Sprockets

A wide variety of standardized products.
Sprockets for general-purpose drive chains.

Standardized single and two-strand products.
Four types of hubs are available.
The Strong series with hardened teeth in the large-tooth zone gains high reputation as well. (P.7)



Sprockets for Double-pitch Chain Applications

Most popular small-conveyance sprockets dedicated to double-pitch chain applications.

A wide variety of sizes supporting a variety of chains for both R-rollers and S-rollers.
(P.128)



This catalog introduces all sprockets ranging from those for drive chains to compact and large-sized conveyor chains. Users can choose optimal products from a wide variety of versatile products according to the users' environments. Please use TSUBAKI sprockets that continue development respond to a wide variety of users' needs.

Sprockets for Top Chains

Steel sprockets (including some sprockets made of cast iron or stainless steel) dedicated to top chains.

Sprockets for plastic top chains are free of sharp edges, thus preventing damage to the chains. (P.144)



Sprockets for Large-sized Conveyor Chains

Each product designed with a well-balanced sprocket shaft hole and hub length based on the chain capacity.

More than 500 types of standard products are available. Products in a wide variety with hardened teeth are available as well. (P.154)



Sprockets Dedicated to Free-flow Chains

Sprockets dedicated to a variety of free-flow chains.

Corresponding Models

- Top roller chain applications (P.141)
- Double-plus chain applications (VRP models) (P.141)
- Side roller chain applications (P.143)



Special Sprockets

Feel free to contact TSUBAKI for special or custom-made sprockets.

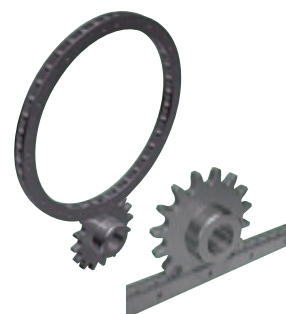
Corresponding Models

- Sprockets for chain type pin gears (P.117)
- Sprockets for torque limiters (P.119)
- Sprockets for BS roller chains (P.119)



Pin Gear Drive Units

New-type drive units designed with TSUBAKI's rich experience in pin gear drives in the aim of improvements in performance, ease of installation, and application range expansion (used for linear and rotary applications). (P.121)

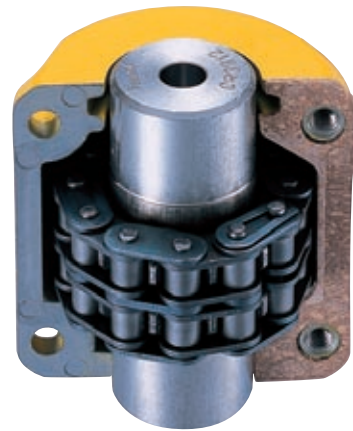


TSUBAKI

Flexible Couplings

Roller Chain Couplings

Flexible couplings consisting of two sprockets provided with dedicated sturdy two-strand roller chains specially designed with TSUBAKI's experience and technology.



Nylon Chain Couplings

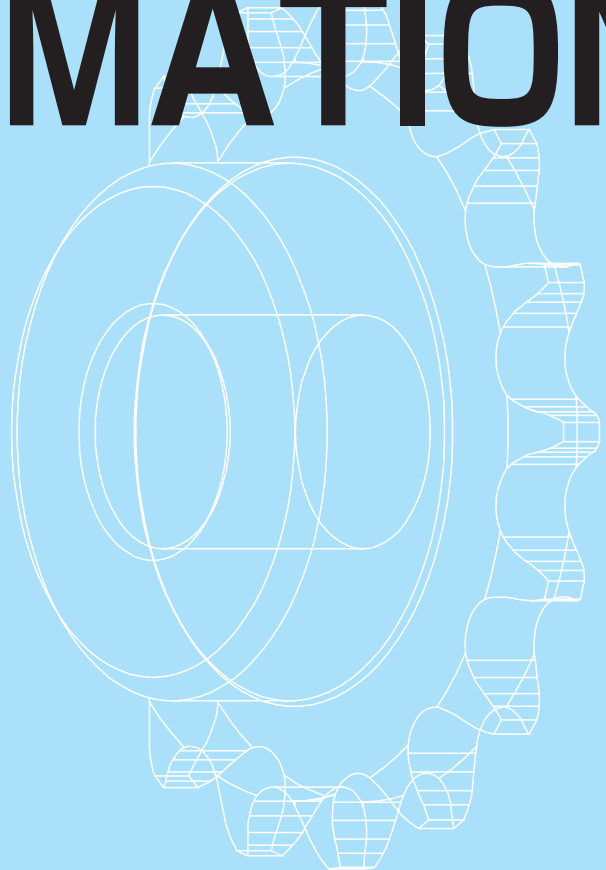
Economy-type flexible couplings consisting of general-purpose sprockets provided with polyacetal resin chains as typical engineering plastics.



RS

RS SPROCKETS

PRODUCT INFORMATION



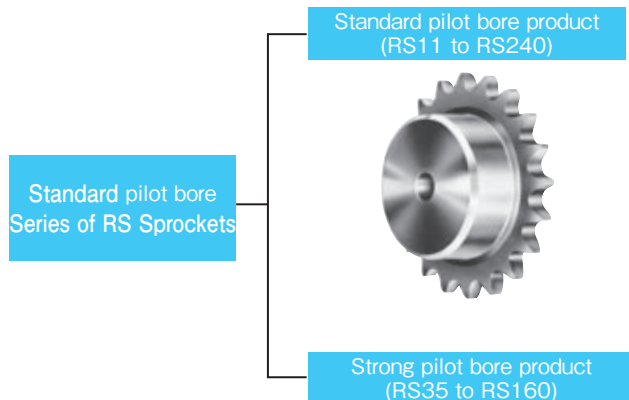
Standard Pilot Bore Series

The Standard Pilot bore Series provides sprockets for RS roller chains (conforming Japanese Industrial Standards and ISO standards).

Each sprocket is provided with a pilot bore that needs processing before use.

(Only the RS25 has an H8 finished bore with tapping.)

⇒ The Fit Bore Series with a finished bore is available as well (see page 59).



Standardized with a wide variety of products.

Products in popular sizes varying in the number of teeth and conforming to Japanese Industrial Standards (JIS) are in stock and ready to deliver promptly.

Moreover, the single dual (SD) model is available, on which two single-strand chains can be put. The small-tooth zone has hardened teeth and the large-tooth zone with non-hardened.

In response to customers' demand, the large-tooth zone is provided with hardened teeth. The Strong Series provides high-quality sprockets with hardened teeth under proper quality standards.

* The classification of the small-tooth zone and large-tooth zone vary with each size. For details, refer to the specification and size tables.

● Ordering Information on Standard Pilot Bore Series of RS Sprockets ●

Place each order with the product code and model number.

● Order example

[Standard Pilot Bore Product]

Product code	Model number	Quantity	Unit
H110218	RS40-2A48T	10	K (No. of units)

[Strong Pilot Bore Product]

Product code	Model number	Quantity	Unit
H112075	RS40-2A48TQ	10	K (No. of units)

● Model No.

RS40-2A 48T ☐

Chain number

Number of teeth

Strand	Sprocket type	Specification
Single-Strand: 1	Type A (Flat) : A	Standard : (None)
Double-Strand: 2	Type B (Single Hub) : B	Strong : Q
	Type C (Both Hubs) : C	
Single Dual: SD		

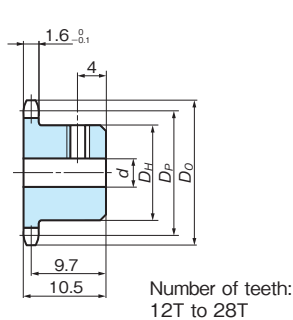
Only the RS25 model differs in model.

For details, refer to the corresponding pages.

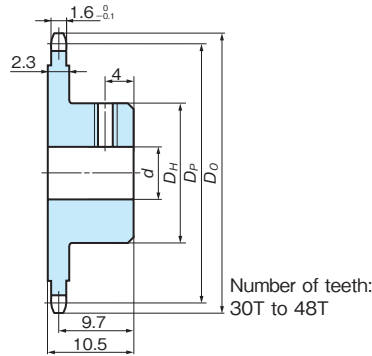
● Sprocket Types

Type symbol	A (Flat)	B (Single Hub)	C (Both Hubs)	SD (Single Dual)
Structure				
Specification	Flat structure with no hub (boss)	Flat structure with a hub (boss) on a single side	Flat structure with hubs (bosses) on both sides	Structure where two single-strand chains can be put.

RS11 1B Type



Number of teeth:
12T to 28T



Number of teeth:
30T to 48T

Model No. : RS11-1B□□T-SS

No. of teeth Stainless steel

(No mounting bolts are provided.)

* RS11 pilot bore models are made of stainless steel only.
Products made from steel are made to order.

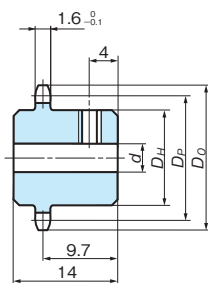
Product code	Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub diameter D_H	Setscrew hole	Approx. mass (g)	Time for delivery
					Pilot bore	Max.				
H110001	RS11-1B12T-SS	12	14.475	16.2	4	6	9.4	M3×0.5	5.9	◎
H110002	RS11-1B15T-SS	15	18.020	19.9	4	9	13		11.5	◎
H110003	RS11-1B16T-SS	16	19.204	21.1	4	9	14		13.5	◎
H110004	RS11-1B18T-SS	18	21.575	23.5	4	11	16		17.7	◎
H110005	RS11-1B20T-SS	20	23.949	25.9	6	13	19		23.3	◎
H110006	RS11-1B24T-SS	24	28.703	30.7	6	13	19	M4×0.7	25.7	◎
H110007	RS11-1B28T-SS	28	33.462	35.5	6	13	19		28.7	◎
H110008	RS11-1B30T-SS	30	35.842	37.9	6	13	19		29.7	◎
H110009	RS11-1B34T-SS	34	40.604	42.7	6	13	19		37.9	◎
H110010	RS11-1B36T-SS	36	42.986	45.1	6	13	19		40.7	◎
H110011	RS11-1B40T-SS	40	47.751	49.8	6	13	19		46.5	◎
H110012	RS11-1B48T-SS	48	57.283	59.4	6	13	19		60.5	◎
Material and specifications		Machined stainless steel								

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

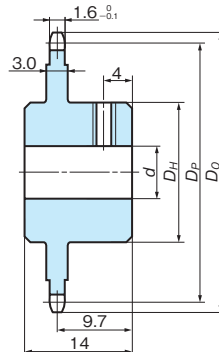
Consult your TSUBAKI representative for the numbers of teeth other than the above.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS11 1C Type



Number of teeth:
12T to 28T



Number of teeth:
30T to 48T

Model No. : RS11-1C□□T-SS

No. of teeth Stainless steel

(No mounting bolts are provided.)

* RS11 pilot bore models are made of stainless steel only.
Products made from steel are made to order.

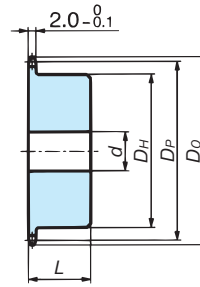
Product code	Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub diameter D_H	Setscrew hole	Approx. mass (g)	Time for delivery
					Pilot bore	Max.				
H110013	RS11-1C12T-SS	12	14.475	16.2	4	6	9.4	M3×0.5	7.4	◎
H110014	RS11-1C15T-SS	15	18.020	19.9	4	9	13		14.7	◎
H110015	RS11-1C16T-SS	16	19.204	21.1	4	9	14		17.3	◎
H110016	RS11-1C18T-SS	18	21.575	23.5	4	11	16		22.8	◎
H110017	RS11-1C20T-SS	20	23.949	25.9	6	13	19		30.8	◎
H110018	RS11-1C24T-SS	24	28.703	30.7	6	13	19	M4×0.7	32.7	◎
H110019	RS11-1C28T-SS	28	33.462	35.5	6	13	19		35.7	◎
H110020	RS11-1C30T-SS	30	35.842	37.9	6	13	19		39.3	◎
H110021	RS11-1C34T-SS	34	40.604	42.7	6	13	19		48.9	◎
H110022	RS11-1C36T-SS	36	42.986	45.1	6	13	19		52.4	◎
H110023	RS11-1C40T-SS	40	47.751	49.8	6	13	19		59.9	◎
H110024	RS11-1C48T-SS	48	57.283	59.4	6	13	19		77.8	◎
Material and specifications		Machined stainless steel								

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Consult your TSUBAKI representative for the numbers of teeth other than the above.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS15 1B Type



Model No. : **RS15-1B** **T**
No. of teeth

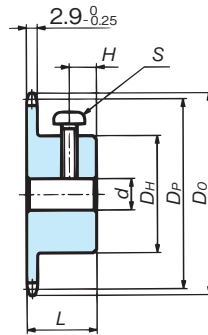
Product code	Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_O)	Bore diameter d		Hub		Approx. mass (g)	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L		
H110025	RS15-1B11T	11	16.90	19.0	4	7	11	10	9	◎
H110026	RS15-1B12T	12	18.40	20.5	4	8	12	10	10	◎
H110027	RS15-1B13T	13	19.90	22.0	4	9	14	10	14	◎
H110028	RS15-1B14T	14	21.40	23.5	6	10	15	12	17	◎
H110029	RS15-1B15T	15	22.91	25.0	6	12	17	12	22	◎
H110030	RS15-1B16T	16	24.41	26.5	8	12	18	12	23	◎
H110031	RS15-1B17T	17	25.92	28.0	8	14	20	14	32	◎
H110032	RS15-1B18T	18	27.43	29.5	8	14	22	14	40	◎
H110033	RS15-1B19T	19	28.93	31.0	8	15	23	14	44	◎
H110034	RS15-1B20T	20	30.44	32.5	8	15	24	14	49	◎
H110035	RS15-1B21T	21	31.95	34.0	8	17	26	14	57	◎
H110036	RS15-1B22T	22	33.46	35.5	8	17	27	14	62	◎
H110037	RS15-1B23T	23	34.98	37.5	8	17	28	14	68	◎
H110038	RS15-1B24T	24	36.49	39.0	8	20	30	16	88	◎
H110039	RS15-1B25T	25	38.00	40.5	8	20	32	16	100	◎
H110040	RS15-1B26T	26	39.51	42.0	10	22	33	16	104	◎
H110041	RS15-1B27T	27	41.02	43.5	10	25	35	16	117	◎
H110042	RS15-1B28T	28	42.54	45.0	10	25	37	16	131	◎
H110043	RS15-1B29T	29	44.05	46.5	10	25	38	16	139	◎
H110044	RS15-1B30T	30	45.56	48.0	10	25	39	16	147	◎
H110045	RS15-1B31T	31	47.08	49.5	10	25	40	18	175	◎
H110046	RS15-1B32T	32	48.59	51.0	10	25	40	18	176	◎
H110047	RS15-1B33T	33	50.10	52.5	10	25	40	18	178	◎
H110048	RS15-1B34T	34	51.62	54.0	10	25	40	18	180	◎
H110049	RS15-1B35T	35	53.13	55.5	10	25	40	18	182	◎
Material and specifications		Carbon steel for machine structural use, Solid type								

Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS25 1B Type



Model No. : RS25-1B□□T-□

No. of teeth
Finished bore dia.

Setscrew: Provided with a small Philips round head screw (Stainless)

Product code	Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_O)	Hub		Setscrew (1 point)		Finished bore dia. (d) tolerance (H8) (Straight bore with no keyway)			Approx. mass (kg)	Time for delivery
					Diameter D_H	Length L	Position H	Size S					
H110050	RS25-1B10T-6	10	20.55	23.5	13	14	4	M3 × 6	6	8	10	0.013	◎
H110052	RS25-1B10T-8	10	20.55	23.5	13	14	4	M3 × 6				0.013	◎
H110051	RS25-1B11T-6	11	22.54	25.5	15	14	4	M3 × 8				0.016	◎
H110053	RS25-1B11T-8	11	22.54	25.5	15	14	4	M3 × 8				0.016	◎
H110054	RS25-1B12T-8	12	24.53	27.5	17	14	4	M4 × 8				0.020	◎
H110068	RS25-1B12T-10	12	24.53	27.5	17	14	4	M4 × 8				0.020	◎
H110055	RS25-1B13T-8	13	26.53	29.5	18	14	4	M4 × 8	8	10	10	0.023	◎
H110069	RS25-1B13T-10	13	26.53	29.5	18	14	4	M4 × 8				0.023	◎
H110056	RS25-1B14T-8	14	28.54	31.5	19	14	4	M4 × 8				0.026	◎
H110070	RS25-1B14T-10	14	28.54	31.5	19	14	4	M4 × 8				0.026	◎
H110057	RS25-1B15T-8	15	30.54	33.5	20	14	4	M4 × 10				0.031	◎
H110071	RS25-1B15T-10	15	30.54	33.5	20	14	4	M4 × 10				0.031	◎
H110058	RS25-1B16T-8	16	32.55	35.5	21	16	5	M4 × 10	8	10	10	0.038	◎
H110072	RS25-1B16T-10	16	32.55	35.5	21	16	5	M4 × 10				0.038	◎
H110059	RS25-1B17T-8	17	34.56	37.5	23	16	5	M4 × 10				0.045	◎
H110073	RS25-1B17T-10	17	34.56	37.5	23	16	5	M4 × 10				0.045	◎
H110060	RS25-1B18T-8	18	36.57	39.5	25	16	5	M4 × 12				0.052	◎
H110074	RS25-1B18T-10	18	36.57	39.5	25	16	5	M4 × 12				0.052	◎
H110061	RS25-1B19T-8	19	38.58	41.5	26	16	5	M4 × 12	8	10	10	0.060	◎
H110075	RS25-1B19T-10	19	38.58	41.5	26	16	5	M4 × 12				0.060	◎
H110062	RS25-1B20T-8	20	40.59	43.5	28	16	5	M4 × 14				0.068	◎
H110076	RS25-1B20T-10	20	40.59	43.5	28	16	5	M4 × 14				0.068	◎
H110063	RS25-1B21T-8	21	42.61	45.5	30	18	7	M4 × 14				0.080	◎
H110077	RS25-1B21T-10	21	42.61	45.5	30	18	7	M4 × 14				0.080	◎
H110064	RS25-1B22T-8	22	44.62	48	30	18	7	M4 × 14	8	10	10	0.084	◎
H110078	RS25-1B22T-10	22	44.62	48	30	18	7	M4 × 14				0.084	◎
H110065	RS25-1B23T-8	23	46.63	50	30	18	7	M4 × 14				0.088	◎
H110079	RS25-1B23T-10	23	46.63	50	30	18	7	M4 × 14				0.088	◎
H110066	RS25-1B24T-8	24	48.65	52	30	18	7	M4 × 14				0.093	◎
H110080	RS25-1B24T-10	24	48.65	52	30	18	7	M4 × 14				0.093	◎
H110067	RS25-1B25T-8	25	50.66	54	30	18	7	M4 × 14	8	10	12	0.098	◎
H110081	RS25-1B25T-10	25	50.66	54	30	18	7	M4 × 14				0.098	◎
H110082	RS25-1B26T-10	26	52.68	56	30	18	7	M4 × 14				0.098	◎
H110086	RS25-1B26T-12	26	52.68	56	30	18	7	M4 × 14				0.098	◎
H110083	RS25-1B28T-10	28	56.71	60	30	18	7	M4 × 14				0.103	◎
H110087	RS25-1B28T-12	28	56.71	60	30	18	7	M4 × 14				0.103	◎
H110084	RS25-1B30T-10	30	60.75	64	30	18	7	M4 × 14	10	12	12	0.110	◎
H110088	RS25-1B30T-12	30	60.75	64	30	18	7	M4 × 14				0.110	◎
H110085	RS25-1B32T-10	32	64.78	68	30	18	7	M4 × 14				0.117	◎
H110089	RS25-1B32T-12	32	64.78	68	30	18	7	M4 × 14				0.117	◎

Material and specifications

21T and under: Sintered iron alloy

22T and over: Carbon steel for machine structural use, Solid type

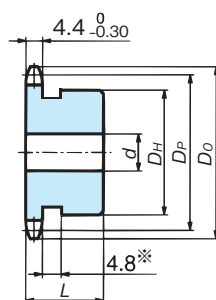
Consult your TSUBAKI representative for the numbers of teeth other than the above.

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RS35 1B Type

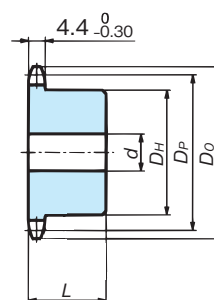
Hub with groove
(No. of teeth: 9T to 13T)



※

No. of teeth	Hub dia.	Groove dia.
9T	φ 22	φ 16
10T	φ 25	φ 18
11T	φ 27	φ 22
12T	φ 31	φ 24
13T	φ 32	φ 28

Hub without groove
(No. of teeth: 14T and over)



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

● RS35 1B Type

● RS35 1B Type Strong (with Hardened Teeth)

Model No. : RS35-1B□□T No. of teeth			Common dimensions							Model No. : RS35-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110090	RS35-1B9T	○	27.85	32	8.0	11	22	20	0.06			
H110091	RS35-1B10T	○	30.82	35	8.0	12	25	20	0.08			
H110092	RS35-1B11T	○	33.81	38	8.0	14	27	20	0.09			
H110093	RS35-1B12T	○	36.80	41	8.0	16.5	31	20	0.12			
H110094	RS35-1B13T	○	39.80	44	9.5	18	32	20	0.12			
H110095	RS35-1B14T	○	42.80	47	9.5	16.5	30	20	0.12			
H110096	RS35-1B15T	○	45.81	51	9.5	19	35	20	0.16			
H110097	RS35-1B16T	○	48.82	54	9.5	20	37	20	0.19			
H110098	RS35-1B17T	○	51.84	57	9.5	24	41	20	0.22			
H110099	RS35-1B18T	○	54.85	60	9.5	24.5	44	20	0.25			
H110100	RS35-1B19T	○	57.87	63	9.5	28.5	47	20	0.28			
H110101	RS35-1B20T	○	60.89	66	9.5	30	50	20	0.32			
H110102	RS35-1B21T	○	63.91	69	9.5	32	53	20	0.36			
H110103	RS35-1B22T	○	66.93	72	9.5	32	53	20	0.37			
H110104	RS35-1B23T	○	69.95	75	9.5	32	53	20	0.40			
H110105	RS35-1B24T	○	72.97	78	9.5	32	53	22	0.43			
H110106	RS35-1B25T	○	76.00	81	12.7	32	53	22	0.44			
H110107	RS35-1B26T	○	79.02	84	12.7	32	53	22	0.45			
H110108	RS35-1B27T	○	82.05	87	12.7	32	53	22	0.46			
H110109	RS35-1B28T	○	85.07	90	12.7	32	53	22	0.48			
H110110	RS35-1B30T	○	91.12	96	12.7	32	53	22	0.51			
H110111	RS35-1B32T	○	97.18	102	12.7	32	53	22	0.54			
H110112	RS35-1B34T	○	103.23	109	12.7	32	53	22	0.57			
H110113	RS35-1B35T	○	106.26	112	12.7	32	53	22	0.59			
H110114	RS35-1B36T	○	109.29	115	12.7	32	53	22	0.61			
H110115	RS35-1B38T	○	115.34	121	13	42	63	25	0.82			
H110116	RS35-1B40T	○	121.40	127	13	42	63	25	0.85			
H110117	RS35-1B42T	○	127.46	133	13	42	63	25	0.91	H112001	RS35-1B42TQ	1W
H110118	RS35-1B45T	○	136.55	142	13	42	63	25	0.95	H112002	RS35-1B45TQ	1W
H110119	RS35-1B48T	○	145.64	151	13	42	63	25	1.0	H112003	RS35-1B48TQ	1W
H110120	RS35-1B50T	○	151.69	157	13	42	63	25	1.1	H112004	RS35-1B50TQ	1W
H110121	RS35-1B54T	○	163.82	169	13	42	63	25	1.2	H112005	RS35-1B54TQ	1W
H110122	RS35-1B60T	○	182.00	187	13	42	63	25	1.3	H112006	RS35-1B60TQ	1W
H110123	RS35-1B65T	○	197.15	203	16	45	68	25	1.5	H112007	RS35-1B65TQ	1W
H110124	RS35-1B70T	○	212.30	218	16	45	68	25	1.7	H112008	RS35-1B70TQ	1W
H110125	RS35-1B75T	○	227.46	233	16	45	68	25	1.8	H112009	RS35-1B75TQ	1W
Carbon steel for machine structural use, Solid type			Material and specifications							Carbon steel for machine structural use, Solid type		

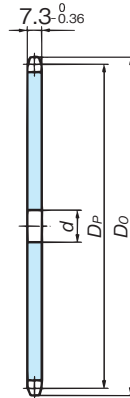
The 1B-type models in the shaded part of the table are products with hardened teeth.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 1A Type



● RS40 1A Type

● RS40 1A Type Strong (with Hardened Teeth)

Model No. : RS40-1A□□T No. of teeth			Common dimensions				Model No. : RS40-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110126	RS40-1A12T	○	49.07	55	16	0.10	H112010	RS40-1A12TQ	○
H110127	RS40-1A13T	○	53.07	59	16	0.11	H112011	RS40-1A13TQ	○
H110128	RS40-1A14T	○	57.07	63	16	0.13	H112012	RS40-1A14TQ	○
H110129	RS40-1A15T	○	61.08	67	16	0.14	H112013	RS40-1A15TQ	○
H110130	RS40-1A16T	○	65.10	71	16	0.16	H112014	RS40-1A16TQ	○
H110131	RS40-1A17T	○	69.12	76	16	0.19	H112015	RS40-1A17TQ	○
H110132	RS40-1A18T	○	73.14	80	16	0.21	H112016	RS40-1A18TQ	○
H110133	RS40-1A19T	○	77.16	84	16	0.24	H112017	RS40-1A19TQ	○
H110134	RS40-1A20T	○	81.18	88	16	0.26	H112018	RS40-1A20TQ	○
H110135	RS40-1A21T	○	85.21	92	16	0.29	H112019	RS40-1A21TQ	○
H110136	RS40-1A22T	○	89.24	96	16	0.32	H112020	RS40-1A22TQ	○
H110137	RS40-1A23T	○	93.27	100	16	0.35	H112021	RS40-1A23TQ	○
H110138	RS40-1A24T	○	97.30	104	16	0.38	H112022	RS40-1A24TQ	○
H110139	RS40-1A25T	○	101.33	108	16	0.41	H112023	RS40-1A25TQ	○
H110140	RS40-1A26T	○	105.36	112	16	0.45	H112024	RS40-1A26TQ	○
H110141	RS40-1A27T	○	109.40	116	16	0.52	H112025	RS40-1A27TQ	○
H110142	RS40-1A28T	○	113.43	120	16	0.56	H112026	RS40-1A28TQ	○
H110143	RS40-1A30T	○	121.50	128	16	0.60	H112027	RS40-1A30TQ	○
H110144	RS40-1A32T	○	129.57	137	16	0.68	H112028	RS40-1A32TQ	○
H110145	RS40-1A34T	○	137.64	145	16	0.77	H112029	RS40-1A34TQ	○
H110146	RS40-1A35T	○	141.68	149	16	0.82	H112030	RS40-1A35TQ	○
H110147	RS40-1A36T	○	145.72	153	16	0.87	H112031	RS40-1A36TQ	○
H110148	RS40-1A38T	○	153.79	161	16	0.96	H112032	RS40-1A38TQ	○
H110149	RS40-1A40T	○	161.87	169	16	1.1	H112033	RS40-1A40TQ	○
H110150	RS40-1A42T	○	169.94	177	18	1.2	H112034	RS40-1A42TQ	○
H110151	RS40-1A45T	○	182.06	189	18	1.4	H112035	RS40-1A45TQ	○
H110152	RS40-1A48T	○	194.18	201	18	1.5	H112036	RS40-1A48TQ	○
H110153	RS40-1A50T	○	202.26	209	18	1.7	H112037	RS40-1A50TQ	○
H110154	RS40-1A54T	○	218.42	226	18	2.0	H112038	RS40-1A54TQ	○
H110155	RS40-1A60T	○	242.66	250	18	2.4	H112039	RS40-1A60TQ	○
H110156	RS40-1A65T	○	262.87	270	23	2.8	H112040	RS40-1A65TQ	○
H110157	RS40-1A70T	○	283.07	290	23	3.2	H112041	RS40-1A70TQ	○
H110158	RS40-1A75T	○	303.28	311	23	3.7	H112042	RS40-1A75TQ	○
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

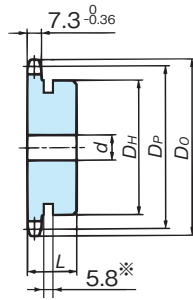
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The models in the shaded part are products with hardened teeth.

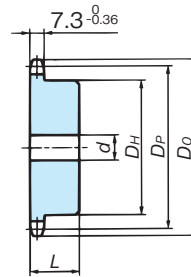
Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 1B Type

Hub with groove
(No. of teeth: 9T to 12T)



Hub without groove
(No. of teeth: 13T and over)



※
No. of teeth : Hub dia. : Groove dia.
9T : φ 28 : φ 21
10T : φ 32 : φ 25
11T : φ 37 : φ 30
12T : φ 40 : φ 32

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

● RS40 1B Type

● RS40 1B Type Strong (with Hardened Teeth)

Model No. : RS40-1B□□T No. of teeth			Common dimensions							Model No. : RS40-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d Pilot bore Max.	Hub Diameter D_H Length L	Approx. mass (kg)			Product code	Model number	Time for delivery
H110159	RS40-1B9T	○	37.13	43	9.5 15	28 22	0.11					
H110160	RS40-1B10T	○	41.10	47	9.5 16.5	32 22	0.14					
H110161	RS40-1B11T	○	45.08	51	9.5 20	37 22	0.19					
H110162	RS40-1B12T	○	49.07	55	9.5 22	40 22	0.22					
H110163	RS40-1B13T	○	53.07	59	9.5 20	37 22	0.23					
H110164	RS40-1B14T	○	57.07	63	9.5 24	42 22	0.28					
H110165	RS40-1B15T	○	61.08	67	9.5 28.5	46 22	0.34					
H110166	RS40-1B16T	○	65.10	71	12.7 30	50 22	0.40					
H110167	RS40-1B17T	○	69.12	76	12.7 32	54 22	0.46					
H110168	RS40-1B18T	○	73.14	80	12.7 35	57 22	0.51					
H110169	RS40-1B19T	○	77.16	84	12.7 39.5	62 22	0.59					
H110170	RS40-1B20T	○	81.18	88	12.7 45.5	67 25	0.76					
H110171	RS40-1B21T	○	85.21	92	12.7 45.5	71 25	0.85					
H110172	RS40-1B22T	○	89.24	96	12.7 50	75 25	0.95					
H110173	RS40-1B23T	○	93.27	100	12.7 50	77 25	1.0					
H110174	RS40-1B24T	○	97.30	104	12.7 42	63 25	0.84					
H110175	RS40-1B25T	○	101.33	108	12.7 42	63 25	0.88					
H110176	RS40-1B26T	○	105.36	112	12.7 42	63 25	0.92					
H110177	RS40-1B27T	○	109.40	116	12.7 42	63 25	0.96					
H110178	RS40-1B28T	○	113.43	120	12.7 42	63 25	1.0					
H110179	RS40-1B30T	○	121.50	128	12.7 42	63 25	1.1					
H110180	RS40-1B32T	○	129.57	137	16 45	68 28	1.3					
H110181	RS40-1B34T	○	137.64	145	16 45	68 28	1.3					
H110182	RS40-1B35T	○	141.68	149	16 45	68 28	1.4					
H110183	RS40-1B36T	○	145.72	153	16 45	68 28	1.4					
H110184	RS40-1B38T	○	153.79	161	16 45	68 28	1.5					
H110185	RS40-1B40T	○	161.87	169	16 45	68 28	1.6					
H110186	RS40-1B42T	○	169.94	177	18 48	73 32	2.0	H112043	RS40-1B42TQ		1W	
H110187	RS40-1B45T	○	182.06	189	18 48	73 32	2.1	H112044	RS40-1B45TQ		1W	
H110188	RS40-1B48T	○	194.18	201	18 48	73 32	2.3	H112045	RS40-1B48TQ		1W	
H110189	RS40-1B50T	○	202.26	209	18 48	73 32	2.5	H112046	RS40-1B50TQ		1W	
H110190	RS40-1B54T	○	218.42	226	18 48	73 32	2.8	H112047	RS40-1B54TQ		1W	
H110191	RS40-1B60T	○	242.66	250	18 48	73 32	3.2	H112048	RS40-1B60TQ		1W	
H110192	RS40-1B65T	○	262.87	270	23 55	83 32	3.9	H112049	RS40-1B65TQ		1W	
H110193	RS40-1B70T	○	283.07	290	23 55	83 32	4.3	H112050	RS40-1B70TQ		1W	
H110194	RS40-1B75T	○	303.28	311	23 55	83 32	4.8	H112051	RS40-1B75TQ		1W	
Carbon steel for machine structural use, Solid type			Material and specifications							Carbon steel for machine structural use, Solid type		

The 1B-type models in the shaded part of the table are products with hardened teeth.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

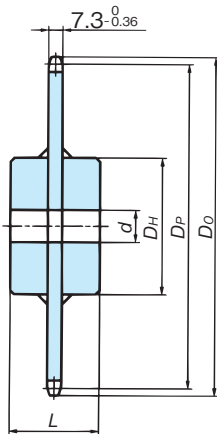
■ The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 1C Type

● RS40 1C Type

● RS40 1C Type Strong (with Hardened Teeth)



Model No. : RS40-1C□□T No. of teeth			Common dimensions							Model No. : RS40-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110195	RS40-1C28T	Q	113.43	120	16	48	73	45	1.8	H112052	RS40-1C28TQ	Q
H110196	RS40-1C30T	Q	121.50	128	16	48	73	45	1.9	H112053	RS40-1C30TQ	Q
H110197	RS40-1C32T	Q	129.57	137	16	48	73	45	2.0	H112054	RS40-1C32TQ	Q
H110198	RS40-1C34T	Q	137.64	145	16	48	73	45	2.0	H112055	RS40-1C34TQ	Q
H110199	RS40-1C35T	Q	141.68	149	16	48	73	45	2.1	H112056	RS40-1C35TQ	Q
H110200	RS40-1C36T	⊙	145.72	153	16	48	73	45	2.2	H112057	RS40-1C36TQ	Q
H110201	RS40-1C38T	⊙	153.79	161	16	48	73	45	2.3	H112058	RS40-1C38TQ	Q
H110202	RS40-1C40T	⊙	161.87	169	16	48	73	45	2.4	H112059	RS40-1C40TQ	Q
H110203	RS40-1C42T	⊙	169.94	177	18	48	73	45	2.4	H112060	RS40-1C42TQ	1W
H110204	RS40-1C45T	⊙	182.06	189	18	48	73	45	2.6	H112061	RS40-1C45TQ	1W
H110205	RS40-1C48T	⊙	194.18	201	18	48	73	45	2.8	H112062	RS40-1C48TQ	1W
H110206	RS40-1C50T	⊙	202.26	209	18	48	73	45	2.9	H112063	RS40-1C50TQ	1W
H110207	RS40-1C54T	⊙	218.42	226	18	48	73	45	3.3	H112064	RS40-1C54TQ	1W
H110208	RS40-1C60T	⊙	242.66	250	18	48	73	45	3.8	H112065	RS40-1C60TQ	1W
H110209	RS40-1C65T	⊙	262.87	270	23	55	83	50	4.7	H112066	RS40-1C65TQ	1W
H110210	RS40-1C70T	⊙	283.07	290	23	55	83	50	5.2	H112067	RS40-1C70TQ	1W
H110211	RS40-1C75T	⊙	303.28	311	23	55	83	50	5.7	H112068	RS40-1C75TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

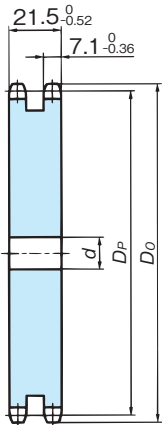
□ The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 2A Type

● RS40 2A Type

● RS40 2A Type Strong (with Hardened Teeth)



Model No. : RS40-2A□□T No. of teeth			Common dimensions				Model No. : RS40-2A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110212	RS40-2A35T	Q	141.68	149	16	3.5	H112069	RS40-2A35TQ	1W
H110213	RS40-2A36T	2W	145.72	153	16	3.6	H112070	RS40-2A36TQ	2W
H110214	RS40-2A38T	2W	153.79	161	16	3.9	H112071	RS40-2A38TQ	2W
H110215	RS40-2A40T	Q	161.87	169	16	4.3	H112072	RS40-2A40TQ	1W
H110216	RS40-2A42T	2W	169.94	177	16	4.6	H112073	RS40-2A42TQ	2W
H110217	RS40-2A45T	Q	182.06	189	18	5.1	H112074	RS40-2A45TQ	1W
H110218	RS40-2A48T	3W	194.18	201	18	5.7	H112075	RS40-2A48TQ	3W
H110219	RS40-2A50T	3W	202.26	209	18	6.3	H112076	RS40-2A50TQ	3W
H110220	RS40-2A54T	Q	218.42	226	18	7.0	H112077	RS40-2A54TQ	1W
H110221	RS40-2A60T	Q	242.66	250	18	8.5	H112078	RS40-2A60TQ	1W
Carbon steel for machine structural use, Solid type			Material and specifications				Carbon steel for machine structural use, Solid type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

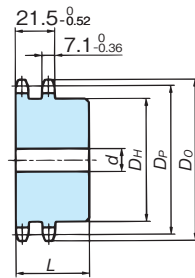
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

□ The models in the shaded part are products with hardened teeth.

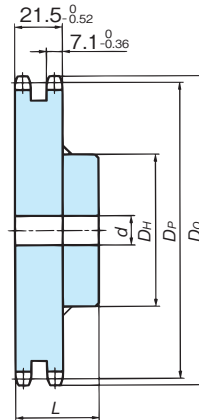
Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 2B Type

Machining specifications
(No. of teeth: 12T to 45T)



Welding specifications
(No. of teeth: 48T and over)



● RS40 2B Type

● RS40 2B Type Strong (with Hardened Teeth)

Model No. : RS40-2B□□T No. of teeth			Common dimensions							Model No. : RS40-2B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d Pilot bore Max.	Hub Diameter D_H	Length L	Approx. mass (kg)		Product code	Model number	Time for delivery
H110222	RS40-2B12T	○	49.07	55	9.5	18	32	35	0.34			
H110223	RS40-2B13T	○	53.07	59	12.7	20	37	35	0.39			
H110224	RS40-2B14T	○	57.07	63	12.7	24	42	35	0.47			
H110225	RS40-2B15T	○	61.08	67	12.7	29	46	35	0.56			
H110226	RS40-2B16T	○	65.10	71	12.7	30	50	35	0.65			
H110227	RS40-2B17T	○	69.12	76	12.7	32	54	35	0.75			
H110228	RS40-2B18T	○	73.14	80	12.7	35	57	35	0.85			
H110229	RS40-2B19T	○	77.16	84	12.7	40	62	35	0.98			
H110230	RS40-2B20T	○	81.18	88	12.7	46	67	40	1.3			
H110231	RS40-2B21T	○	85.21	92	12.7	47	71	40	1.4			
H110232	RS40-2B22T	○	89.24	96	12.7	50	75	40	1.6			
H110233	RS40-2B23T	○	93.27	100	12.7	50	77	40	1.7			
H110234	RS40-2B24T	○	97.30	104	12.7	55	83	40	1.9			
H110235	RS40-2B25T	○	101.33	108	12.7	59	87	40	2.1			
H110236	RS40-2B26T	○	105.36	112	12.7	62	91	40	2.3			
H110237	RS40-2B27T	2W	109.40	116	12.7	65	95	40	2.4			
H110238	RS40-2B28T	2W	113.43	120	12.7	67	99	40	2.6			
H110239	RS40-2B30T	○	121.50	128	12.7	73	106	40	3.0			
H110240	RS40-2B32T	2W	129.57	137	12.7	78	115	50	4.3			
H110241	RS40-2B34T	2W	137.64	145	12.7	84	124	50	5.0			
H110242	RS40-2B35T	○	141.68	149	16	63	93	50	3.9	H112079	RS40-2B35TQ	1W
H110243	RS40-2B36T	2W	145.72	153	16	63	93	50	4.0	H112080	RS40-2B36TQ	2W
H110244	RS40-2B38T	2W	153.79	161	16	63	93	50	4.3	H112081	RS40-2B38TQ	2W
H110245	RS40-2B40T	○	161.87	169	16	63	93	50	4.7	H112082	RS40-2B40TQ	1W
H110246	RS40-2B42T	2W	169.94	177	16	63	93	50	5.0	H112083	RS40-2B42TQ	2W
H110247	RS40-2B45T	○	182.06	189	18	63	93	50	5.5	H112084	RS40-2B45TQ	1W
H110248	RS40-2B48T	2W	194.18	201	18	63	93	50	6.1	H112085	RS40-2B48TQ	2W
H110249	RS40-2B50T	2W	202.26	209	18	63	93	50	6.7	H112086	RS40-2B50TQ	2W
H110250	RS40-2B54T	○	218.42	226	18	63	93	50	7.4	H112087	RS40-2B54TQ	1W
H110251	RS40-2B60T	○	242.66	250	18	63	93	50	8.9	H112088	RS40-2B60TQ	1W
45T and under: Carbon steel for machine structural use, Solid type 48T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

The 2B-type models in the shaded part of the table are products with hardened teeth.

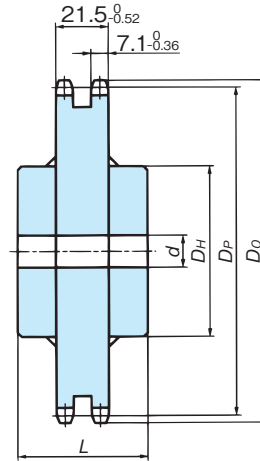
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS40 2C Type



● RS40 2C Type

● RS40 2C Type Strong (with Hardened Teeth)

Model No. : RS40-2C□□T No. of teeth			Common dimensions							Model No. : RS40-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_O)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110252	RS40-2C35T	Q	141.68	149	16	63	88	70	4.9	H112089	RS40-2C35TQ	1W
H110253	RS40-2C36T	2W	145.72	153	16	63	93	70	5.1	H112090	RS40-2C36TQ	2W
H110254	RS40-2C38T	2W	153.79	161	16	63	93	70	5.4	H112091	RS40-2C38TQ	2W
H110255	RS40-2C40T	Q	161.87	169	16	63	93	70	5.7	H112092	RS40-2C40TQ	1W
H110256	RS40-2C42T	2W	169.94	177	16	63	93	70	6.0	H112093	RS40-2C42TQ	2W
H110257	RS40-2C45T	Q	182.06	189	18	63	93	70	6.6	H112094	RS40-2C45TQ	1W
H110258	RS40-2C48T	2W	194.18	201	18	63	93	70	7.2	H112095	RS40-2C48TQ	2W
H110259	RS40-2C50T	2W	202.26	209	18	63	93	70	7.8	H112096	RS40-2C50TQ	2W
H110260	RS40-2C54T	Q	218.42	226	18	63	93	70	8.4	H112097	RS40-2C54TQ	1W
H110261	RS40-2C60T	Q	242.66	250	18	63	93	70	9.9	H112098	RS40-2C60TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

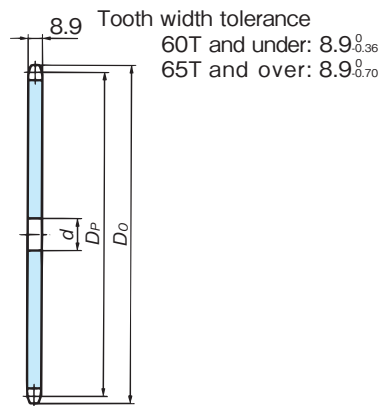
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

 The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 1A Type



● RS50 1A Type

● RS50 1A Type Strong (with Hardened Teeth)

Model No. : RS50-1A□□T No. of teeth			Common dimensions				Model No. : RS50-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110262	RS50-1A12T	○	61.34	69	18	0.18	H112099	RS50-1A12TQ	○
H110263	RS50-1A13T	○	66.33	74	18	0.22	H112100	RS50-1A13TQ	○
H110264	RS50-1A14T	○	71.34	79	18	0.24	H112101	RS50-1A14TQ	○
H110265	RS50-1A15T	○	76.35	84	18	0.27	H112102	RS50-1A15TQ	○
H110266	RS50-1A16T	○	81.37	89	18	0.31	H112103	RS50-1A16TQ	○
H110267	RS50-1A17T	○	86.39	94	18	0.35	H112104	RS50-1A17TQ	○
H110268	RS50-1A18T	○	91.42	100	18	0.40	H112105	RS50-1A18TQ	○
H110269	RS50-1A19T	○	96.45	105	18	0.44	H112106	RS50-1A19TQ	○
H110270	RS50-1A20T	○	101.48	110	18	0.49	H112107	RS50-1A20TQ	○
H110271	RS50-1A21T	○	106.51	115	18	0.54	H112108	RS50-1A21TQ	○
H110272	RS50-1A22T	○	111.55	120	18	0.60	H112109	RS50-1A22TQ	○
H110273	RS50-1A23T	○	116.59	125	18	0.66	H112110	RS50-1A23TQ	○
H110274	RS50-1A24T	○	121.62	130	18	0.71	H112111	RS50-1A24TQ	○
H110275	RS50-1A25T	○	126.66	135	18	0.78	H112112	RS50-1A25TQ	○
H110276	RS50-1A26T	○	131.70	140	18	0.84	H112113	RS50-1A26TQ	○
H110277	RS50-1A27T	○	136.74	145	18	0.91	H112114	RS50-1A27TQ	○
H110278	RS50-1A28T	○	141.79	150	18	0.98	H112115	RS50-1A28TQ	○
H110279	RS50-1A30T	○	151.87	161	18	1.1	H112116	RS50-1A30TQ	○
H110280	RS50-1A32T	○	161.96	171	18	1.3	H112117	RS50-1A32TQ	○
H110281	RS50-1A34T	○	172.05	181	18	1.4	H112118	RS50-1A34TQ	○
H110282	RS50-1A35T	○	177.10	186	18	1.5	H112119	RS50-1A35TQ	○
H110283	RS50-1A36T	○	182.15	191	23	1.6	H112120	RS50-1A36TQ	○
H110284	RS50-1A38T	○	192.24	201	23	1.8	H112121	RS50-1A38TQ	○
H110285	RS50-1A40T	○	202.33	211	23	2.0	H112122	RS50-1A40TQ	○
H110286	RS50-1A42T	○	212.43	221	23	2.2	H112123	RS50-1A42TQ	○
H110287	RS50-1A45T	○	227.58	237	23	2.5	H112124	RS50-1A45TQ	○
H110288	RS50-1A48T	○	242.73	252	23	2.9	H112125	RS50-1A48TQ	○
H110289	RS50-1A50T	○	252.82	262	23	3.1	H112126	RS50-1A50TQ	○
H110290	RS50-1A54T	○	273.03	282	23	3.6	H112127	RS50-1A54TQ	○
H110291	RS50-1A60T	○	303.33	312	23	4.6	H112128	RS50-1A60TQ	○
H110292	RS50-1A65T	○	328.58	338	23	5.3	H112129	RS50-1A65TQ	○
H110293	RS50-1A70T	○	353.84	363	23	6.1	H112130	RS50-1A70TQ	○
H110294	RS50-1A75T	○	379.10	388	23	7.1	H112131	RS50-1A75TQ	○
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

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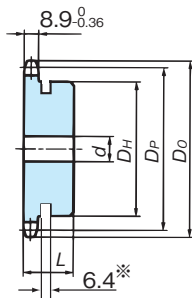
■ The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 1B Type

Machining specifications

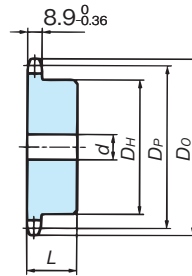
Hub with groove
(No. of teeth: 9T to 13T)



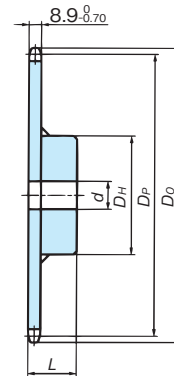
※
No. of teeth : Hub dia. : Groove dia.
9T : ϕ 34 : ϕ 27
10T : ϕ 40 : ϕ 32
11T : ϕ 46 : ϕ 37
12T : ϕ 51 : ϕ 42
13T : ϕ 51 : ϕ 47

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Hub without groove
(No. of teeth: 14T to 60T)



Welding specifications
(No. of teeth: 65T and over)



● RS50 1B Type

● RS50 1B Type Strong (with Hardened Teeth)

Model No. : RS50-1B□□T No. of teeth			Common dimensions							Model No. : RS50-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Bore diameter <i>d</i>		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter <i>D_H</i>	Length <i>L</i>				
H110295	RS50-1B9T	◎	46.42	53	9.5	19	34	25	0.20			
H110296	RS50-1B10T	◎	51.37	58	9.5	22	40	25	0.27			
H110297	RS50-1B11T	◎	56.35	64	12.7	25	46	25	0.33			
H110298	RS50-1B12T	◎	61.34	69	12.7	32	51	25	0.41			
H110299	RS50-1B13T	◎	66.33	74	12.7	32	51	25	0.46			
H110300	RS50-1B14T	◎	71.34	79	12.7	32	52	25	0.52			
H110301	RS50-1B15T	◎	76.35	84	12.7	35	57	25	0.62			
H110302	RS50-1B16T	◎	81.37	89	12.7	40	62	25	0.72			
H110303	RS50-1B17T	◎	86.39	94	12.7	45.5	67	25	0.83			
H110304	RS50-1B18T	◎	91.42	100	12.7	47.5	72	28	1.0			
H110305	RS50-1B19T	◎	96.45	105	12.7	47.5	73	28	1.1			
H110306	RS50-1B20T	◎	101.48	110	12.7	47.5	73	28	1.2			
H110307	RS50-1B21T	◎	106.51	115	15.9	47.5	73	28	1.2			
H110308	RS50-1B22T	◎	111.55	120	15.9	47.5	73	28	1.3			
H110309	RS50-1B23T	◎	116.59	125	15.9	47.5	73	28	1.3			
H110310	RS50-1B24T	◎	121.62	130	15.9	47.5	73	28	1.4			
H110311	RS50-1B25T	◎	126.66	135	15.9	47.5	73	28	1.5			
H110312	RS50-1B26T	◎	131.70	140	18	48	73	28	1.5			
H110313	RS50-1B27T	◎	136.74	145	18	48	73	28	1.5			
H110314	RS50-1B28T	◎	141.79	150	18	48	73	28	1.6			
H110315	RS50-1B30T	◎	151.87	161	18	48	73	28	1.8			
H110316	RS50-1B32T	◎	161.96	171	18	48	73	28	1.9			
H110317	RS50-1B34T	◎	172.05	181	18	48	73	28	2.1			
H110318	RS50-1B35T	◎	177.10	186	18	48	73	28	2.2			
H110319	RS50-1B36T	◎	182.15	191	23	55	83	35	2.7	H112132	RS50-1B36TQ	◎
H110320	RS50-1B38T	◎	192.24	201	23	55	83	35	2.9	H112133	RS50-1B38TQ	◎
H110321	RS50-1B40T	◎	202.33	211	23	55	83	35	3.1	H112134	RS50-1B40TQ	◎
H110322	RS50-1B42T	◎	212.43	221	23	55	83	35	3.3	H112135	RS50-1B42TQ	1W
H110323	RS50-1B45T	◎	227.58	237	23	55	83	35	3.6	H112136	RS50-1B45TQ	1W
H110324	RS50-1B48T	◎	242.73	252	23	55	83	35	4.0	H112137	RS50-1B48TQ	1W
H110325	RS50-1B50T	◎	252.82	262	23	55	83	35	4.3	H112138	RS50-1B50TQ	1W
H110326	RS50-1B54T	◎	273.03	282	23	55	83	35	4.8	H112139	RS50-1B54TQ	1W
H110327	RS50-1B60T	◎	303.33	312	23	55	83	35	5.6	H112140	RS50-1B60TQ	1W
H110328	RS50-1B65T	◎	328.58	338	23	63	93	40	6.9	H112141	RS50-1B65TQ	1W
H110329	RS50-1B70T	◎	353.84	363	23	63	93	40	7.7	H112142	RS50-1B70TQ	1W
H110330	RS50-1B75T	◎	379.10	388	23	63	93	40	8.6	H112143	RS50-1B75TQ	1W
60T and under:Carbon steel for machine structural use, Solid type 65T and over:Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							60T and under:Carbon steel for machine structural use, Solid type 65T and over:Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

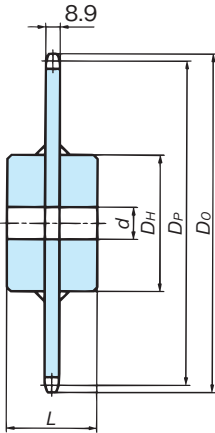
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The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 1C Type

Tooth width tolerance
60T and under: $8.9^{+0.36}_{-0.70}$
65T and over: $8.9^{+0.36}_{-0.70}$



● RS50 1C Type

Model No. : RS50-1C□□T No. of teeth			Common dimensions							Model No. : RS50-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d Pilot bore	Max. Diameter D_H	Hub Length L	Approx. mass (kg)		Product code	Model number	Time for delivery
H110331	RS50-1C28T	Q	141.79	150	18	55	83	50	2.7	H112144	RS50-1C28TQ	1W
H110332	RS50-1C30T	Q	151.87	161	18	55	83	50	2.9	H112145	RS50-1C30TQ	1W
H110333	RS50-1C32T	Q	161.96	171	18	55	83	50	3.1	H112146	RS50-1C32TQ	1W
H110334	RS50-1C34T	Q	172.05	181	18	55	83	50	3.2	H112147	RS50-1C34TQ	1W
H110335	RS50-1C35T	Q	177.10	186	18	55	83	50	3.3	H112148	RS50-1C35TQ	1W
H110336	RS50-1C36T	○	182.15	191	23	55	83	50	3.4	H112149	RS50-1C36TQ	1W
H110337	RS50-1C38T	○	192.24	201	23	55	83	50	3.6	H112150	RS50-1C38TQ	1W
H110338	RS50-1C40T	○	202.33	211	23	55	83	50	3.8	H112151	RS50-1C40TQ	1W
H110339	RS50-1C42T	○	212.43	221	23	55	83	50	4.0	H112152	RS50-1C42TQ	1W
H110340	RS50-1C45T	○	227.58	237	23	55	83	50	4.4	H112153	RS50-1C45TQ	1W
H110341	RS50-1C48T	○	242.73	252	23	55	83	50	4.8	H112154	RS50-1C48TQ	1W
H110342	RS50-1C50T	○	252.82	262	23	55	83	50	5.0	H112155	RS50-1C50TQ	1W
H110343	RS50-1C54T	○	273.03	282	23	55	83	50	5.6	H112156	RS50-1C54TQ	1W
H110344	RS50-1C60T	○	303.33	312	23	63	93	60	7.5	H112157	RS50-1C60TQ	1W
H110345	RS50-1C65T	○	328.58	338	23	63	93	60	8.3	H112158	RS50-1C65TQ	1W
H110346	RS50-1C70T	○	353.84	363	23	63	93	60	9.3	H112159	RS50-1C70TQ	1W
H110347	RS50-1C75T	○	379.10	388	23	63	93	60	10.3	H112160	RS50-1C75TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

■ The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 2A Type

● RS50 2A Type

Model No. : RS50-2A□□T No. of teeth			Common dimensions				Model No. : RS50-2A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110348	RS50-2A26T	Q	131.70	140	18	2.5	H112161	RS50-2A26TQ	1W
H110349	RS50-2A27T	2W	136.74	145	18	2.7	H112162	RS50-2A27TQ	2W
H110350	RS50-2A28T	2W	141.79	150	18	3.0	H112163	RS50-2A28TQ	2W
H110351	RS50-2A30T	Q	151.87	161	18	3.4	H112164	RS50-2A30TQ	1W
H110352	RS50-2A32T	2W	161.96	171	18	3.9	H112165	RS50-2A32TQ	2W
H110353	RS50-2A34T	2W	172.05	181	18	4.5	H112166	RS50-2A34TQ	2W
H110354	RS50-2A35T	Q	177.10	186	18	4.7	H112167	RS50-2A35TQ	1W
H110355	RS50-2A36T	2W	182.15	191	18	5.0	H112168	RS50-2A36TQ	2W
H110356	RS50-2A38T	2W	192.24	201	18	5.6	H112169	RS50-2A38TQ	2W
H110357	RS50-2A40T	Q	202.33	211	23	6.3	H112170	RS50-2A40TQ	1W
H110358	RS50-2A42T	2W	212.43	221	23	6.9	H112171	RS50-2A42TQ	3W
H110359	RS50-2A45T	Q	227.58	237	23	8.0	H112172	RS50-2A45TQ	1W
H110360	RS50-2A48T	3W	242.73	252	23	9.1	H112173	RS50-2A48TQ	3W
H110361	RS50-2A50T	3W	252.82	262	23	9.9	H112174	RS50-2A50TQ	3W
H110362	RS50-2A54T	Q	273.03	282	23	11.6	H112175	RS50-2A54TQ	1W
H110363	RS50-2A60T	Q	303.33	312	23	14.4	H112176	RS50-2A60TQ	1W
Carbon steel for machine structural use, Solid type			Material and specifications				Carbon steel for machine structural use, Solid type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

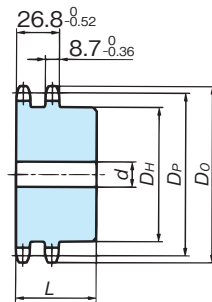
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

■ The models in the shaded part are products with hardened teeth.

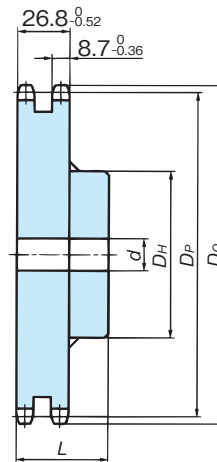
Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 2B Type

Machining specifications
(No. of teeth: 12T to 36T)



Welding specifications
(No. of teeth: 38T and over)



● RS50 2B Type

● RS50 2B Type Strong (with Hardened Teeth)

Model No. : RS50-2B□□T No. of teeth			Common dimensions							Model No. : RS50-2B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D _P	(Outer diameter) (D _O)	Bore diameter d' Pilot bore	Max.	Hub Diameter D _H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H110364	RS50-2B12T	○	61.34	69	12.7	24	42	40	0.60	The 2B-type models in the shaded part of the table are products with hardened teeth.		
H110365	RS50-2B13T	○	66.33	74	12.7	28.5	47	40	0.73			
H110366	RS50-2B14T	○	71.34	79	12.7	32	52	40	0.87			
H110367	RS50-2B15T	○	76.35	84	12.7	35	57	40	1.0			
H110368	RS50-2B16T	○	81.37	89	12.7	40	62	45	1.3			
H110369	RS50-2B17T	○	86.39	94	12.7	45.5	67	45	1.5			
H110370	RS50-2B18T	○	91.42	100	12.7	47.5	72	45	1.7			
H110371	RS50-2B19T	○	96.45	105	15.9	52	79	45	2.0			
H110372	RS50-2B20T	○	101.48	110	15.9	55	82	45	2.2			
H110373	RS50-2B21T	○	106.51	115	15.9	60	89	45	2.5			
H110374	RS50-2B22T	○	111.55	120	15.9	63	92	50	2.9			
H110375	RS50-2B23T	○	116.59	125	15.9	67	99	50	3.3			
H110376	RS50-2B24T	○	121.62	130	15.9	70	102	50	3.6			
H110377	RS50-2B25T	○	126.66	135	15.9	75	109	50	4.0			
H110378	RS50-2B26T	○	131.70	140	18	63	93	50	3.7	H112177	RS50-2B26TQ	1W
H110379	RS50-2B27T	2W	136.74	145	18	63	93	50	3.9	H112178	RS50-2B27TQ	2W
H110380	RS50-2B28T	2W	141.79	150	18	63	93	50	4.1	H112179	RS50-2B28TQ	2W
H110381	RS50-2B30T	○	151.87	161	18	63	93	50	4.6	H112180	RS50-2B30TQ	1W
H110382	RS50-2B32T	2W	161.96	171	18	63	93	50	5.1	H112181	RS50-2B32TQ	2W
H110383	RS50-2B34T	2W	172.05	181	18	63	93	50	5.6	H112182	RS50-2B34TQ	2W
H110384	RS50-2B35T	○	177.10	186	18	63	93	50	5.9	H112183	RS50-2B35TQ	1W
H110385	RS50-2B36T	2W	182.15	191	18	63	93	50	6.2	H112184	RS50-2B36TQ	2W
H110386	RS50-2B38T	2W	192.24	201	18	63	93	50	6.8	H112185	RS50-2B38TQ	2W
H110387	RS50-2B40T	○	202.33	211	23	66	98	56	7.8	H112186	RS50-2B40TQ	1W
H110388	RS50-2B42T	3W	212.43	221	23	66	98	56	8.5	H112187	RS50-2B42TQ	3W
H110389	RS50-2B45T	○	227.58	237	23	66	98	56	9.5	H112188	RS50-2B45TQ	1W
H110390	RS50-2B48T	3W	242.73	252	23	66	98	56	10.7	H112189	RS50-2B48TQ	3W
H110391	RS50-2B50T	3W	252.82	262	23	66	98	56	11.5	H112190	RS50-2B50TQ	3W
H110392	RS50-2B54T	○	273.03	282	23	66	98	63	13.5	H112191	RS50-2B54TQ	1W
H110393	RS50-2B60T	○	303.33	312	23	66	98	63	16.3	H112192	RS50-2B60TQ	1W
36T and under: Carbon steel for machine structural use, Solid type 38T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

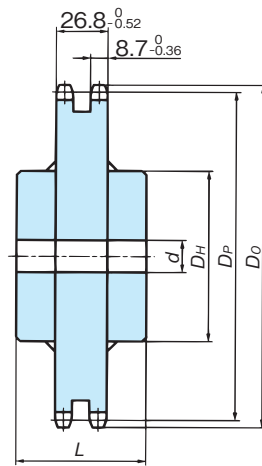
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 2C Type



● RS50 2C Type

● RS50 2C Type Strong (with Hardened Teeth)

Model No. : RS50-2C□□T No. of teeth			Common dimensions							Model No. : RS50-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_O)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110394	RS50-2C26T	Q	131.70	140	18	63	93	75	5.3	H112193	RS50-2C26TQ	1W
H110395	RS50-2C27T	2W	136.74	145	18	63	93	75	5.5	H112194	RS50-2C27TQ	2W
H110396	RS50-2C28T	2W	141.79	150	18	66	98	80	5.7	H112195	RS50-2C28TQ	2W
H110397	RS50-2C30T	Q	151.87	161	18	66	98	80	6.1	H112196	RS50-2C30TQ	1W
H110398	RS50-2C32T	2W	161.96	171	18	66	98	80	6.6	H112197	RS50-2C32TQ	2W
H110399	RS50-2C34T	2W	172.05	181	18	66	98	80	7.2	H112198	RS50-2C34TQ	2W
H110400	RS50-2C35T	Q	177.10	186	18	66	98	80	7.4	H112199	RS50-2C35TQ	1W
H110401	RS50-2C36T	2W	182.15	191	18	66	98	80	7.7	H112200	RS50-2C36TQ	2W
H110402	RS50-2C38T	3W	192.24	201	18	66	98	80	8.3	H112201	RS50-2C38TQ	3W
H110403	RS50-2C40T	Q	202.33	211	23	66	98	80	9.1	H112202	RS50-2C40TQ	1W
H110404	RS50-2C42T	3W	212.43	221	23	66	98	80	9.8	H112203	RS50-2C42TQ	3W
H110405	RS50-2C45T	Q	227.58	237	23	66	98	80	10.9	H112204	RS50-2C45TQ	1W
H110406	RS50-2C48T	3W	242.73	252	23	66	98	80	12.0	H112205	RS50-2C48TQ	3W
H110407	RS50-2C50T	3W	252.82	262	23	66	98	80	12.8	H112206	RS50-2C50TQ	3W
H110408	RS50-2C54T	Q	273.03	282	23	66	98	80	14.5	H112207	RS50-2C54TQ	1W
H110409	RS50-2C60T	Q	303.33	312	23	66	98	80	17.3	H112208	RS50-2C60TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

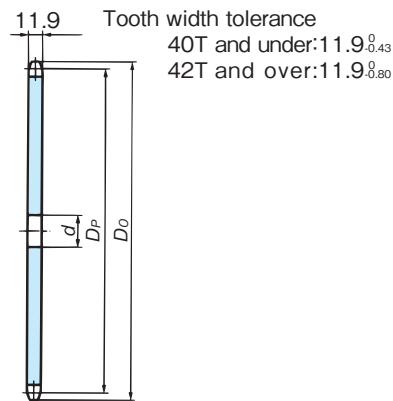
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS60 1A Type



● RS60 1A Type

● RS60 1A Type Strong (with Hardened Teeth)

Model No. : RS60-1A□□T No. of teeth			Common dimensions				Model No. : RS60-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110410	RS60-1A12T	○	73.60	83	18	0.37	H112209	RS60-1A12TQ	○
H110411	RS60-1A13T	○	79.60	89	18	0.42	H112210	RS60-1A13TQ	○
H110412	RS60-1A14T	○	85.61	95	18	0.48	H112211	RS60-1A14TQ	○
H110413	RS60-1A15T	○	91.63	101	18	0.56	H112212	RS60-1A15TQ	○
H110414	RS60-1A16T	○	97.65	107	18	0.64	H112213	RS60-1A16TQ	○
H110415	RS60-1A17T	○	103.67	113	18	0.72	H112214	RS60-1A17TQ	○
H110416	RS60-1A18T	○	109.70	119	18	0.81	H112215	RS60-1A18TQ	○
H110417	RS60-1A19T	○	115.74	126	18	0.90	H112216	RS60-1A19TQ	○
H110418	RS60-1A20T	○	121.78	132	18	1.0	H112217	RS60-1A20TQ	○
H110419	RS60-1A21T	○	127.82	138	18	1.1	H112218	RS60-1A21TQ	○
H110420	RS60-1A22T	○	133.86	144	18	1.2	H112219	RS60-1A22TQ	○
H110421	RS60-1A23T	○	139.90	150	18	1.3	H112220	RS60-1A23TQ	○
H110422	RS60-1A24T	○	145.95	156	18	1.4	H112221	RS60-1A24TQ	○
H110423	RS60-1A25T	○	151.99	162	18	1.6	H112222	RS60-1A25TQ	○
H110424	RS60-1A26T	○	158.04	168	18	1.7	H112223	RS60-1A26TQ	○
H110425	RS60-1A27T	○	164.09	174	18	1.8	H112224	RS60-1A27TQ	○
H110426	RS60-1A28T	○	170.14	180	18	1.9	H112225	RS60-1A28TQ	○
H110427	RS60-1A30T	○	182.25	193	18	2.3	H112226	RS60-1A30TQ	○
H110428	RS60-1A32T	○	194.35	205	18	2.6	H112227	RS60-1A32TQ	○
H110429	RS60-1A34T	○	206.46	217	18	2.8	H112228	RS60-1A34TQ	○
H110430	RS60-1A35T	○	212.52	223	18	3.1	H112229	RS60-1A35TQ	○
H110431	RS60-1A36T	○	218.57	229	18	3.3	H112230	RS60-1A36TQ	○
H110432	RS60-1A38T	○	230.69	241	18	3.6	H112231	RS60-1A38TQ	○
H110433	RS60-1A40T	○	242.80	253	18	4.0	H112232	RS60-1A40TQ	○
H110434	RS60-1A42T	○	254.92	266	23	4.3	H112233	RS60-1A42TQ	○
H110435	RS60-1A45T	○	273.09	284	23	5.1	H112234	RS60-1A45TQ	○
H110436	RS60-1A48T	○	291.27	302	23	5.8	H112235	RS60-1A48TQ	○
H110437	RS60-1A50T	○	303.39	314	23	6.3	H112236	RS60-1A50TQ	○
H110438	RS60-1A54T	○	327.63	338	23	7.4	H112237	RS60-1A54TQ	○
H110439	RS60-1A60T	○	363.99	375	23	9.1	H112238	RS60-1A60TQ	○
H110440	RS60-1A65T	○	394.30	405	28	10	H112239	RS60-1A65TQ	○
H110441	RS60-1A70T	○	424.61	436	28	12	H112240	RS60-1A70TQ	○
H110442	RS60-1A75T	○	454.92	466	28	14	H112241	RS60-1A75TQ	○
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
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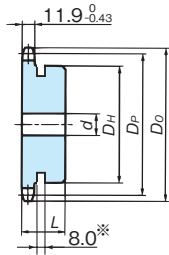
□ The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS60 1B Type

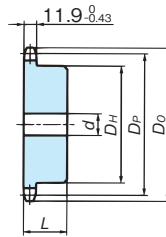
Machining specifications

Hub with groove
(No. of teeth: 9T to 11T)

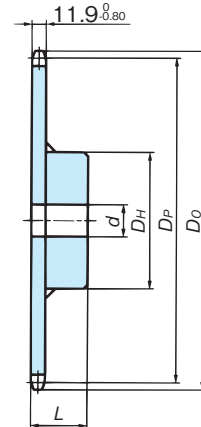


※
No. of teeth : Hub dia. : Groove dia
9T : ϕ 43 : ϕ 32
10T : ϕ 49 : ϕ 37
11T : ϕ 51 : ϕ 45

Hub without groove
(No. of teeth: 12T to 40T)



Welding specifications
(No. of teeth: 42T and over)



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

● RS60 1B Type

● RS60 1B Type Strong (with Hardened Teeth)

Model No. : RS60-1B□□T No. of teeth			Common dimensions							Model No. : RS60-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110443	RS60-1B9T	○	55.70	64	9.5	24.5	43	32	0.40			
H110444	RS60-1B10T	○	61.65	70	12.7	30	49	32	0.49			
H110445	RS60-1B11T	○	67.62	76	12.7	32	51	32	0.60			
H110446	RS60-1B12T	○	73.60	83	12.7	32	51	32	0.69			
H110447	RS60-1B13T	○	79.60	89	15.9	35	57	32	0.81			
H110448	RS60-1B14T	○	85.61	95	15.9	39.5	62	32	0.96			
H110449	RS60-1B15T	○	91.63	101	15.9	45.5	68	32	1.1			
H110450	RS60-1B16T	○	97.65	107	15.9	47.5	73	32	1.3			
H110451	RS60-1B17T	○	103.67	113	15.9	47.5	73	32	1.4			
H110452	RS60-1B18T	○	109.70	119	15.9	55	83	40	2.0			
H110453	RS60-1B19T	○	115.74	126	15.9	55	83	40	2.1			
H110454	RS60-1B20T	○	121.78	132	15.9	55	83	40	2.2			
H110455	RS60-1B21T	○	127.82	138	15.9	55	83	40	2.3			
H110456	RS60-1B22T	○	133.86	144	15.9	55	83	40	2.5			
H110457	RS60-1B23T	○	139.90	150	18	55	83	40	2.5			
H110458	RS60-1B24T	○	145.95	156	18	55	83	40	2.6			
H110459	RS60-1B25T	○	151.99	162	18	55	83	40	2.7			
H110460	RS60-1B26T	○	158.04	168	18	55	83	40	2.9			
H110461	RS60-1B27T	○	164.09	174	18	55	83	40	3.0			
H110462	RS60-1B28T	○	170.14	180	18	55	83	40	3.1			
H110463	RS60-1B30T	○	182.25	193	18	55	83	40	3.4			
H110464	RS60-1B32T	○	194.35	205	18	55	83	40	3.7	H112242	RS60-1B32TQ	1W
H110465	RS60-1B34T	○	206.46	217	18	55	83	40	4.0	H112243	RS60-1B34TQ	1W
H110466	RS60-1B35T	○	212.52	223	18	55	83	40	4.2	H112244	RS60-1B35TQ	1W
H110467	RS60-1B36T	○	218.57	229	18	55	83	40	4.4	H112245	RS60-1B36TQ	1W
H110468	RS60-1B38T	○	230.69	241	18	55	83	40	4.8	H112246	RS60-1B38TQ	1W
H110469	RS60-1B40T	○	242.80	253	18	55	83	40	5.1	H112247	RS60-1B40TQ	1W
H110470	RS60-1B42T	○	254.92	266	23	63	93	45	6.0	H112248	RS60-1B42TQ	1W
H110471	RS60-1B45T	○	273.09	284	23	63	93	45	6.7	H112249	RS60-1B45TQ	1W
H110472	RS60-1B48T	○	291.27	302	23	63	93	45	7.4	H112250	RS60-1B48TQ	1W
H110473	RS60-1B50T	○	303.39	314	23	63	93	45	8.0	H112251	RS60-1B50TQ	1W
H110474	RS60-1B54T	○	327.63	338	23	63	93	45	8.9	H112252	RS60-1B54TQ	1W
H110475	RS60-1B60T	○	363.99	375	23	63	93	45	10.6	H112253	RS60-1B60TQ	1W
H110476	RS60-1B65T	○	394.30	405	28	75	107	45	12.8	H112254	RS60-1B65TQ	1W
H110477	RS60-1B70T	○	424.61	436	28	75	107	45	14.4	H112255	RS60-1B70TQ	1W
H110478	RS60-1B75T	○	454.92	466	28	75	107	45	16.3	H112256	RS60-1B75TQ	1W
40T and under: Carbon steel for machine structural use, Solid type 42T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							40T and under: Carbon steel for machine structural use, Solid type 42T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

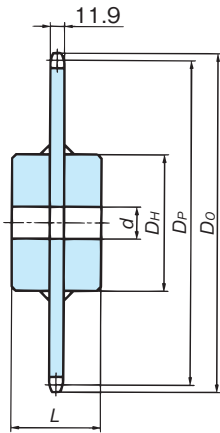
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The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS60 1C Type

Tooth width tolerance
40T and under: $11.9^{+0.43}_{-0.00}$
42T and over: $11.9^{+0.80}_{-0.00}$



● RS60 1C Type

Model No. : **RS60-1C□□T**
No. of teeth

Product code	Model number	Time for delivery
H110479	RS60-1C28T	○
H110480	RS60-1C30T	○
H110481	RS60-1C32T	○
H110482	RS60-1C34T	○
H110483	RS60-1C35T	○
H110484	RS60-1C36T	○
H110485	RS60-1C38T	○
H110486	RS60-1C40T	○
H110487	RS60-1C42T	○
H110488	RS60-1C45T	○
H110489	RS60-1C48T	○
H110490	RS60-1C50T	○
H110491	RS60-1C54T	○
H110492	RS60-1C60T	○
H110493	RS60-1C65T	○
H110494	RS60-1C70T	○
H110495	RS60-1C75T	○

Carbon steel for machine structural use (teeth)
Rolled steel for general structure (hub)
Welding type

Material and specifications

● RS60 1C Type Strong (with Hardened Teeth)

Model No. : **RS60-1C□□TQ**
No. of teeth

	Product code	Model number	Time for delivery
6	H112257	RS60-1C28TQ	⊙
9	H112258	RS60-1C30TQ	⊙
3	H112259	RS60-1C32TQ	1W
6	H112260	RS60-1C34TQ	1W
8	H112261	RS60-1C35TQ	1W
0	H112262	RS60-1C36TQ	1W
1	H112263	RS60-1C38TQ	1W
5	H112264	RS60-1C40TQ	1W
8	H112265	RS60-1C42TQ	1W
5	H112266	RS60-1C45TQ	1W
3	H112267	RS60-1C48TQ	1W
7	H112268	RS60-1C50TQ	1W
9	H112269	RS60-1C54TQ	1W
4	H112270	RS60-1C60TQ	1W
0	H112271	RS60-1C65TQ	1W
3	H112272	RS60-1C70TQ	1W
7	H112273	RS60-1C75TQ	1W

Carbon steel for machine structural use (teeth)
Rolled steel for general structure (hub)
Welding type

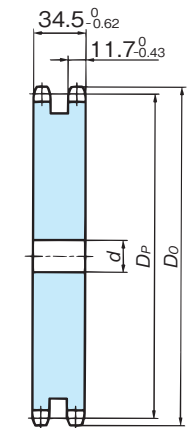
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

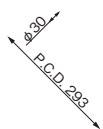
The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS60 2A Type



Hanging hole size
(No. of teeth: 60T)



● RS60 2A Type

Model No. : **RS60-2A□□T**
No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)
H110496	RS60-2A23T	Q	139.90	150	18	1.9
H110497	RS60-2A24T	Q	145.95	156	18	2.1
H110498	RS60-2A25T	Q	151.99	162	18	2.3
H110499	RS60-2A26T	Q	158.04	168	18	2.5
H110500	RS60-2A27T	2W	164.09	174	18	2.7
H110501	RS60-2A28T	2W	170.14	180	18	2.9
H110502	RS60-2A30T	Q	182.25	193	18	3.4
H110503	RS60-2A32T	2W	194.35	205	18	3.9
H110504	RS60-2A34T	2W	206.46	217	18	4.4
H110505	RS60-2A35T	Q	212.52	223	18	4.7
H110506	RS60-2A36T	2W	218.57	229	18	5.0
H110507	RS60-2A38T	2W	230.69	241	18	5.6
H110508	RS60-2A40T	Q	242.80	253	18	6.2
H110509	RS60-2A42T	2W	254.92	266	23	6.9
H110510	RS60-2A45T	Q	273.09	284	23	8.0
H110511	RS60-2A48T	3W	291.27	302	23	9.1
H110512	RS60-2A50T	3W	303.39	314	23	9.9
H110513	RS60-2A54T	Q	327.63	338	23	11.6
H110514	RS60-2A60T	Q	363.99	375	23	14.4

Carbon steel for machine structural use, Solid type

Material and specifications

● RS60 2A Type Strong (with Hardened Teeth)

Model No. : **RS60-2A□□TQ**
No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)
H112274	RS60-2A23TQ	1W	139.90	150	18	1.9
H112275	RS60-2A24TQ	1W	145.95	156	18	2.1
H112276	RS60-2A25TQ	1W	151.99	162	18	2.3
H112277	RS60-2A26TQ	1W	158.04	168	18	2.5
H112278	RS60-2A27TQ	2W	164.09	174	18	2.7
H112279	RS60-2A28TQ	2W	170.14	180	18	2.9
H112280	RS60-2A30TQ	1W	182.25	193	18	3.4
H112281	RS60-2A32TQ	3W	194.35	205	18	3.9
H112282	RS60-2A34TQ	3W	206.46	217	18	4.4
H112283	RS60-2A35TQ	1W	212.52	223	18	4.7
H112284	RS60-2A36TQ	3W	218.57	229	18	5.0
H112285	RS60-2A38TQ	3W	230.69	241	18	5.6
H112286	RS60-2A40TQ	1W	242.80	253	18	6.2
H112287	RS60-2A42TQ	3W	254.92	266	23	6.9
H112288	RS60-2A45TQ	1W	273.09	284	23	8.0
H112289	RS60-2A48TQ	3W	291.27	302	23	9.1
H112290	RS60-2A50TQ	3W	303.39	314	23	9.9
H112291	RS60-2A54TQ	1W	327.63	338	23	11.6
H112292	RS60-2A60TQ	1W	363.99	375	23	14.4

Carbon steel for machine structural use, Solid type

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

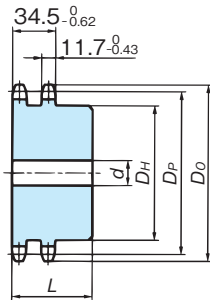
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

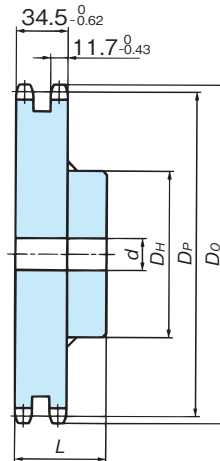
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration on the left-hand side for the dimensions of the hanging hole.

RS60 2B Type

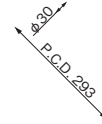
Machining specifications
(No. of teeth: 12T to 30T)



Welding specifications
(No. of teeth: 32T and over)



Hanging hole size
(No. of teeth: 60T)



The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS60 2B Type

● RS60 2B Type Strong (with Hardened Teeth)

Model no. : RS60-2B□□T No. of teeth			Common dimensions							Model No. : RS60-2B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_0)	Bore diameter d	Hub	Approx. mass (kg)			Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110515	RS60-2B12T	○	73.60	83	12.7	32	51	50	1.1			
H110516	RS60-2B13T	○	79.60	89	15.9	35	57	50	1.3			
H110517	RS60-2B14T	○	85.61	95	15.9	39.5	62	56	1.7			
H110518	RS60-2B15T	○	91.63	101	15.9	45.5	68	56	2.0			
H110519	RS60-2B16T	○	97.65	107	15.9	50	76	56	2.4			
H110520	RS60-2B17T	○	103.67	113	15.9	55	82	56	2.8			
H110521	RS60-2B18T	○	109.70	119	15.9	59	87	56	3.1			
H110522	RS60-2B19T	○	115.74	126	15.9	63	95	56	3.6			
H110523	RS60-2B20T	○	121.78	132	15.9	69	101	56	4.1			
H110524	RS60-2B21T	○	127.82	138	15.9	75	107	56	4.5			
H110525	RS60-2B22T	○	133.86	144	15.9	78	113	56	5.0			
H110526	RS60-2B23T	○	139.90	150	18	66	98	56	4.9	H112293	RS60-2B23TQ	1W
H110527	RS60-2B24T	○	145.95	156	18	66	98	56	5.2	H112294	RS60-2B24TQ	1W
H110528	RS60-2B25T	○	151.99	162	18	66	98	56	5.6	H112295	RS60-2B25TQ	1W
H110529	RS60-2B26T	○	158.04	168	18	66	98	56	6.0	H112296	RS60-2B26TQ	1W
H110530	RS60-2B27T	2W	164.09	174	18	66	98	56	6.3	H112297	RS60-2B27TQ	2W
H110531	RS60-2B28T	2W	170.14	180	18	66	98	56	6.8	H112298	RS60-2B28TQ	2W
H110532	RS60-2B30T	○	182.25	193	18	66	98	56	7.6	H112299	RS60-2B30TQ	1W
H110533	RS60-2B32T	3W	194.35	205	18	66	98	56	8.5	H112300	RS60-2B32TQ	3W
H110534	RS60-2B34T	3W	206.46	217	18	66	98	56	9.5	H112301	RS60-2B34TQ	3W
H110535	RS60-2B35T	○	212.52	223	18	66	98	56	10.0	H112302	RS60-2B35TQ	1W
H110536	RS60-2B36T	3W	218.57	229	18	66	98	56	10.6	H112303	RS60-2B36TQ	3W
H110537	RS60-2B38T	3W	230.69	241	18	66	98	56	11.7	H112304	RS60-2B38TQ	3W
H110538	RS60-2B40T	○	242.80	253	18	66	98	56	12.8	H112305	RS60-2B40TQ	1W
H110539	RS60-2B42T	3W	254.92	266	23	75	107	71	15.2	H112306	RS60-2B42TQ	3W
H110540	RS60-2B45T	○	273.09	284	23	75	107	71	17.2	H112307	RS60-2B45TQ	1W
H110541	RS60-2B48T	3W	291.27	302	23	75	107	71	19.3	H112308	RS60-2B48TQ	3W
H110542	RS60-2B50T	3W	303.39	314	23	75	107	71	20.8	H112309	RS60-2B50TQ	3W
H110543	RS60-2B54T	○	327.63	338	23	75	107	71	23.9	H112310	RS60-2B54TQ	1W
H110544	RS60-2B60T	○	363.99	375	23	75	107	71	29.1	H112311	RS60-2B60TQ	1W
30T and under: Carbon steel for machine structural use, Solid type 32T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

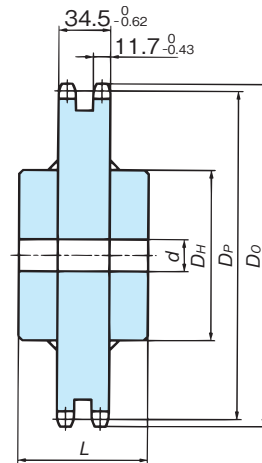
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

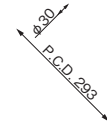
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the above table.

RS60 2C Type



Hanging hole size
(No. of teeth: 60T)



The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS60 2C Type

● RS60 2C Type Strong (with Hardened Teeth)

Model No. : RS60-2C□□T No. of teeth			Common dimensions							Model No. : RS60-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110545	RS60-2C23T	Q	139.90	150	18	66	98	80	6.7	H112312	RS60-2C23TQ	1W
H110546	RS60-2C24T	Q	145.95	156	18	66	98	80	7.1	H112313	RS60-2C24TQ	1W
H110547	RS60-2C25T	Q	151.99	162	18	66	98	80	7.5	H112314	RS60-2C25TQ	1W
H110548	RS60-2C26T	Q	158.04	168	18	66	98	80	7.8	H112315	RS60-2C26TQ	1W
H110549	RS60-2C27T	2W	164.09	174	18	66	98	80	8.3	H112316	RS60-2C27TQ	2W
H110550	RS60-2C28T	2W	170.14	180	18	66	98	80	8.7	H112317	RS60-2C28TQ	2W
H110551	RS60-2C30T	Q	182.25	193	18	66	98	80	9.6	H112318	RS60-2C30TQ	1W
H110552	RS60-2C32T	3W	194.35	205	18	66	98	80	10.6	H112319	RS60-2C32TQ	3W
H110553	RS60-2C34T	3W	206.46	217	18	66	98	80	11.6	H112320	RS60-2C34TQ	3W
H110554	RS60-2C35T	Q	212.52	223	18	75	107	85	13.0	H112321	RS60-2C35TQ	1W
H110555	RS60-2C36T	3W	218.57	229	18	75	107	85	13.5	H112322	RS60-2C36TQ	3W
H110556	RS60-2C38T	3W	230.69	241	18	75	107	85	14.7	H112323	RS60-2C38TQ	3W
H110557	RS60-2C40T	Q	242.80	253	18	75	107	85	15.9	H112324	RS60-2C40TQ	1W
H110558	RS60-2C42T	3W	254.92	266	23	75	107	85	17.1	H112325	RS60-2C42TQ	3W
H110559	RS60-2C45T	Q	273.09	284	23	75	107	85	19.1	H112326	RS60-2C45TQ	1W
H110560	RS60-2C48T	3W	291.27	302	23	75	107	85	21.3	H112327	RS60-2C48TQ	3W
H110561	RS60-2C50T	3W	303.39	314	23	75	107	85	22.8	H112328	RS60-2C50TQ	3W
H110562	RS60-2C54T	Q	327.63	338	23	75	107	85	26.1	H112329	RS60-2C54TQ	1W
H110563	RS60-2C60T	Q	363.99	375	23	75	107	90	31.8	H112330	RS60-2C60TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

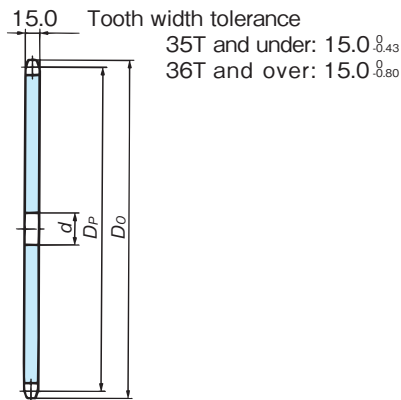
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The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the above table.

RS80 1A Type



● RS80 1A Type

● RS80 1A Type Strong (with Hardened Teeth)

Model No. : RS80-1A□□T No. of teeth			Common dimensions				Model No. : RS80-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110564	RS80-1A12T	○	98.14	110	23	0.82	H112331	RS80-1A12TQ	○
H110565	RS80-1A13T	○	106.14	118	23	0.93	H112332	RS80-1A13TQ	○
H110566	RS80-1A14T	○	114.15	127	23	1.1	H112333	RS80-1A14TQ	○
H110567	RS80-1A15T	○	122.17	135	23	1.2	H112334	RS80-1A15TQ	○
H110568	RS80-1A16T	○	130.20	143	23	1.4	H112335	RS80-1A16TQ	○
H110569	RS80-1A17T	○	138.23	151	23	1.6	H112336	RS80-1A17TQ	○
H110570	RS80-1A18T	○	146.27	159	23	1.8	H112337	RS80-1A18TQ	○
H110571	RS80-1A19T	○	154.32	167	23	2.0	H112338	RS80-1A19TQ	○
H110572	RS80-1A20T	○	162.37	176	23	2.2	H112339	RS80-1A20TQ	○
H110573	RS80-1A21T	○	170.42	184	23	2.5	H112340	RS80-1A21TQ	○
H110574	RS80-1A22T	○	178.48	192	28	2.7	H112341	RS80-1A22TQ	○
H110575	RS80-1A23T	○	186.54	200	28	2.9	H112342	RS80-1A23TQ	○
H110576	RS80-1A24T	○	194.60	208	28	3.2	H112343	RS80-1A24TQ	○
H110577	RS80-1A25T	○	202.66	216	28	3.5	H112344	RS80-1A25TQ	○
H110578	RS80-1A26T	○	210.72	224	28	3.8	H112345	RS80-1A26TQ	○
H110579	RS80-1A27T	○	218.79	233	28	4.0	H112346	RS80-1A27TQ	○
H110580	RS80-1A28T	○	226.86	241	28	4.3	H112347	RS80-1A28TQ	○
H110581	RS80-1A30T	○	243.00	257	28	5.0	H112348	RS80-1A30TQ	○
H110582	RS80-1A32T	○	259.14	273	28	5.8	H112349	RS80-1A32TQ	○
H110583	RS80-1A34T	○	275.28	289	28	6.4	H112350	RS80-1A34TQ	○
H110584	RS80-1A35T	○	283.36	297	28	6.9	H112351	RS80-1A35TQ	○
H110585	RS80-1A36T	○	291.43	306	33	7.3	H112352	RS80-1A36TQ	○
H110586	RS80-1A38T	○	307.58	322	33	8.0	H112353	RS80-1A38TQ	○
H110587	RS80-1A40T	○	323.74	338	33	9.0	H112354	RS80-1A40TQ	○
H110588	RS80-1A42T	○	339.89	354	33	9.8	H112355	RS80-1A42TQ	○
H110589	RS80-1A45T	○	364.12	378	33	11.0	H112356	RS80-1A45TQ	○
H110590	RS80-1A48T	○	388.36	403	33	13.0	H112357	RS80-1A48TQ	○
H110591	RS80-1A50T	○	404.52	419	33	14.0	H112358	RS80-1A50TQ	○
H110592	RS80-1A54T	○	436.84	451	33	16.0	H112359	RS80-1A54TQ	○
H110593	RS80-1A60T	○	485.33	500	33	20.0	H112360	RS80-1A60TQ	○
H110594	RS80-1A65T	○	525.73	540	33	24.6	H112361	RS80-1A65TQ	○
H110595	RS80-1A70T	○	566.15	581	33	28.5	H112362	RS80-1A70TQ	○
H110596	RS80-1A75T	○	606.56	621	33	32.8	H112363	RS80-1A75TQ	○
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

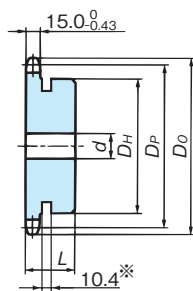
The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

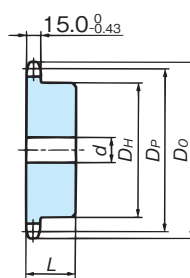
RS80 1B Type

Machining specifications

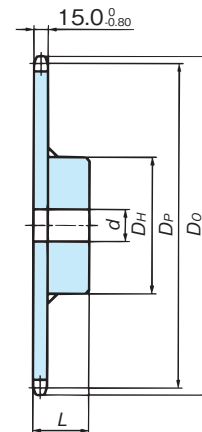
Hub with groove
(No. of teeth: 9T)



Hub without groove
(No. of teeth: 10T to 35T)



Welding specifications
(No. of teeth: 36T and over)



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

● RS80 1B Type

● RS80 1B Type Strong (with Hardened Teeth)

Model No. : RS80-1B□□T No. of teeth			Common dimensions							Model No. : RS80-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d	Hub	Approx. mass (kg)			Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110597	RS80-1B9T	○	74.26	85	15.9	35	58	40	0.87			
H110598	RS80-1B10T	○	82.20	93	15.9	32	52	40	0.97			
H110599	RS80-1B11T	○	90.16	102	15.9	38	60	40	1.2			
H110600	RS80-1B12T	○	98.14	110	19	45	67	40	1.5			
H110601	RS80-1B13T	○	106.14	118	19	50	77	40	1.9			
H110602	RS80-1B14T	○	114.15	127	19	50	77	40	2.0			
H110603	RS80-1B15T	○	122.17	135	19	63	93	40	2.6			
H110604	RS80-1B16T	○	130.20	143	19	63	93	40	2.8			
H110605	RS80-1B17T	○	138.23	151	19	63	93	40	3.0			
H110606	RS80-1B18T	○	146.27	159	19	63	93	40	3.2			
H110607	RS80-1B19T	○	154.32	167	23	63	93	40	3.4			
H110608	RS80-1B20T	○	162.37	176	23	63	93	40	3.6			
H110609	RS80-1B21T	○	170.42	184	23	63	93	40	3.8			
H110610	RS80-1B22T	○	178.48	192	28	75	107	45	4.8			
H110611	RS80-1B23T	○	186.54	200	28	75	107	45	5.1			
H110612	RS80-1B24T	○	194.60	208	28	75	107	45	5.4			
H110613	RS80-1B25T	○	202.66	216	28	75	107	45	5.6			
H110614	RS80-1B26T	○	210.72	224	28	75	107	45	5.9			
H110615	RS80-1B27T	○	218.79	233	28	75	107	45	6.1			
H110616	RS80-1B28T	○	226.86	241	28	75	107	45	6.5			
H110617	RS80-1B30T	○	243.00	257	28	75	107	45	7.1			
H110618	RS80-1B32T	○	259.14	273	28	75	107	45	7.8			
H110619	RS80-1B34T	○	275.28	289	28	75	107	45	8.5			
H110620	RS80-1B35T	○	283.36	297	28	75	107	45	8.9			
H110621	RS80-1B36T	○	291.43	306	33	80	117	50	10.1			
H110622	RS80-1B38T	○	307.58	322	33	80	117	50	10.9			
H110623	RS80-1B40T	○	323.74	338	33	80	117	50	11.8			
H110624	RS80-1B42T	○	339.89	354	33	80	117	50	12.7			
H110625	RS80-1B45T	○	364.12	378	33	80	117	50	14.2			
H110626	RS80-1B48T	○	388.36	403	33	80	117	50	15.8			
H110627	RS80-1B50T	○	404.52	419	33	80	117	50	16.8			
H110628	RS80-1B54T	○	436.84	451	33	80	117	50	19.2			
H110629	RS80-1B60T	○	485.33	500	33	80	117	50	23.1			
H110630	RS80-1B65T	○	525.73	540	33	89	127	63	28.5			
H110631	RS80-1B70T	○	566.15	581	33	89	127	63	32.1			
H110632	RS80-1B75T	○	606.56	621	33	89	127	63	36.2			
35T and under: Carbon steel for machine structural use, Solid type 36T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							35T and under: Carbon steel for machine structural use, Solid type 36T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

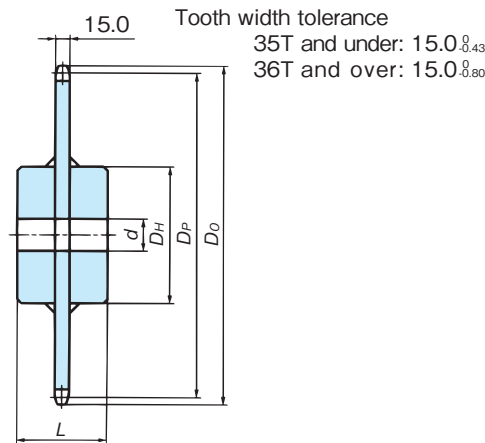
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS80 1C Type



● RS80 1C Type

● RS80 1C Type Strong (with Hardened Teeth)

Model No. : RS80-1C□□T No. of teeth			Common dimensions							Model No. : RS80-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110633	RS80-1C22T	○	178.48	192	28	75	107	60	5.8	H112387	RS80-1C22TQ	1W
H110634	RS80-1C23T	○	186.54	200	28	75	107	60	6.1	H112388	RS80-1C23TQ	1W
H110635	RS80-1C24T	○	194.60	208	28	75	107	60	6.4	H112389	RS80-1C24TQ	1W
H110636	RS80-1C25T	○	202.66	216	28	75	107	60	6.7	H112390	RS80-1C25TQ	1W
H110637	RS80-1C26T	○	210.72	224	28	75	107	60	7.0	H112391	RS80-1C26TQ	1W
H110638	RS80-1C27T	○	218.79	233	28	75	107	60	7.3	H112392	RS80-1C27TQ	1W
H110639	RS80-1C28T	○	226.86	241	28	75	107	65	8.0	H112393	RS80-1C28TQ	1W
H110640	RS80-1C30T	○	243.00	257	28	75	107	65	8.7	H112394	RS80-1C30TQ	1W
H110641	RS80-1C32T	○	259.14	273	28	75	107	65	9.4	H112395	RS80-1C32TQ	1W
H110642	RS80-1C34T	○	275.28	289	28	75	107	65	10.2	H112396	RS80-1C34TQ	1W
H110643	RS80-1C35T	○	283.36	297	28	75	107	65	10.7	H112397	RS80-1C35TQ	1W
H110644	RS80-1C36T	○	291.43	306	33	80	117	65	11.6	H112398	RS80-1C36TQ	Q
H110645	RS80-1C38T	○	307.58	322	33	80	117	80	13.7	H112399	RS80-1C38TQ	Q
H110646	RS80-1C40T	○	323.74	338	33	80	117	80	14.6	H112400	RS80-1C40TQ	Q
H110647	RS80-1C42T	○	339.89	354	33	80	117	80	15.6	H112401	RS80-1C42TQ	Q
H110648	RS80-1C45T	○	364.12	378	33	80	117	80	17.2	H112402	RS80-1C45TQ	Q
H110649	RS80-1C48T	○	388.36	403	33	80	117	80	18.9	H112403	RS80-1C48TQ	Q
H110650	RS80-1C50T	○	404.52	419	33	80	117	80	20.1	H112404	RS80-1C50TQ	Q
H110651	RS80-1C54T	○	436.84	451	33	80	117	80	22.6	H112405	RS80-1C54TQ	Q
H110652	RS80-1C60T	○	485.33	500	33	80	117	80	26.7	H112406	RS80-1C60TQ	1W
H110653	RS80-1C65T	○	525.73	540	33	89	127	90	32.4	H112407	RS80-1C65TQ	1W
H110654	RS80-1C70T	○	566.15	581	33	89	127	90	36.5	H112408	RS80-1C70TQ	1W
H110655	RS80-1C75T	○	606.56	621	33	89	127	90	40.9	H112409	RS80-1C75TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

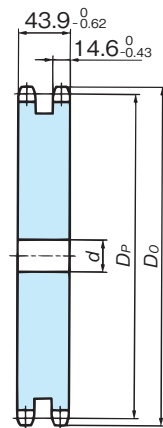
Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
 The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS80 2A Type



Hanging hole size (No. of teeth: 40T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
40	30	242
42	30	258
45	30	283
48	30	307
50	30	323
54	30	355
60	30	404

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS80 2A Type

● RS80 2A Type Strong (with Hardened Teeth)

Model No. : RS80-2A□□T No. of teeth			Common dimensions				Model No. : RS80-2A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110656	RS80-2A18T	Q	146.27	159	23	4.9	H112410	RS80-2A18TQ	1W
H110657	RS80-2A19T	Q	154.32	167	23	5.5	H112411	RS80-2A19TQ	1W
H110658	RS80-2A20T	Q	162.37	176	23	6.1	H112412	RS80-2A20TQ	1W
H110659	RS80-2A21T	Q	170.42	184	23	6.8	H112413	RS80-2A21TQ	1W
H110660	RS80-2A22T	Q	178.48	192	28	7.5	H112414	RS80-2A22TQ	1W
H110661	RS80-2A23T	Q	186.54	200	28	8.2	H112415	RS80-2A23TQ	1W
H110662	RS80-2A24T	Q	194.60	208	28	9.0	H112416	RS80-2A24TQ	1W
H110663	RS80-2A25T	Q	202.66	216	28	9.8	H112417	RS80-2A25TQ	1W
H110664	RS80-2A26T	Q	210.72	224	28	10.7	H112418	RS80-2A26TQ	1W
H110665	RS80-2A27T	3W	218.79	233	28	11.6	H112419	RS80-2A27TQ	3W
H110666	RS80-2A28T	3W	226.86	241	28	12.5	H112420	RS80-2A28TQ	3W
H110667	RS80-2A30T	Q	243.00	257	28	14.5	H112421	RS80-2A30TQ	1W
H110668	RS80-2A32T	3W	259.14	273	28	16.6	H112422	RS80-2A32TQ	3W
H110669	RS80-2A34T	3W	275.28	289	28	18.8	H112423	RS80-2A34TQ	3W
H110670	RS80-2A35T	Q	283.36	297	28	20.0	H112424	RS80-2A35TQ	1W
H110671	RS80-2A36T	3W	291.43	306	28	21.2	H112425	RS80-2A36TQ	3W
H110672	RS80-2A38T	3W	307.58	322	28	23.7	H112426	RS80-2A38TQ	3W
H110673	RS80-2A40T	Q	323.74	338	33	26.3	H112427	RS80-2A40TQ	1W
H110674	RS80-2A42T	3W	339.89	354	33	29.1	H112428	RS80-2A42TQ	3W
H110675	RS80-2A45T	Q	364.12	378	33	33.6	H112429	RS80-2A45TQ	1W
H110676	RS80-2A48T	3W	388.36	403	33	38.3			
H110677	RS80-2A50T	3W	404.52	419	33	41.7			
H110678	RS80-2A54T	Q	436.84	451	33	48.9			
H110679	RS80-2A60T	Q	485.33	500	33	60.7			
45T and under: Carbon steel for machine structural use, Solid type 48T and over: Rolled steel for general structure, Welding type			Material and specifications				Carbon steel for machine structural use, Solid type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

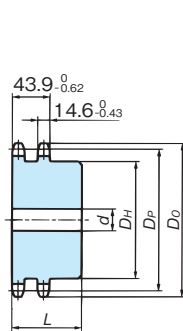
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

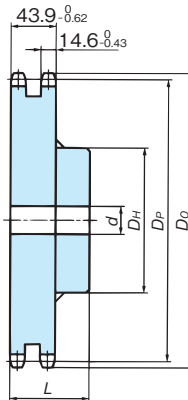
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS80 2B Type

Machining specifications
(No. of teeth: 23T and under)



Welding specifications
(No. of teeth: 24T and over)



Hanging hole size (No. of teeth: 40T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
40	30	242
42	30	258
45	30	283
48	30	307
50	30	323
54	30	355
60	30	404

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS80 2B Type

● RS80 2B Type Strong (with Hardened Teeth)

Model No. : RS80-2B□□T No. of teeth			Common dimensions							Model No. : RS80-2B□□TQ No. of teeth			
Product code	Model number	Time for delivery	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Bore diameter <i>d</i>		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery	
					Pilot bore	Max.	Diameter <i>D_H</i>	Length <i>L</i>					
H110680	RS80-2B12T	◎	98.14	108	19	46	67	63	2.5	The 2B-type models in the shaded part of the table are products with hardened teeth.			
H110681	RS80-2B13T	◎	106.14	118	19	50	77	63	3.1				
H110682	RS80-2B14T	◎	114.15	127	19	58	86	63	3.7				
H110683	RS80-2B15T	◎	122.17	135	19	64	94	63	4.3				
H110684	RS80-2B16T	◎	130.20	143	19	70	102	71	5.5				
H110685	RS80-2B17T	◎	138.23	151	19	76	110	71	6.4				
H110686	RS80-2B18T	◎	146.27	159	23	66	98	71	6.4	H112430	RS80-2B18TQ	1W	
H110687	RS80-2B19T	◎	154.32	167	23	66	98	71	7.0	H112431	RS80-2B19TQ	1W	
H110688	RS80-2B20T	◎	162.37	176	23	75	107	71	7.9	H112432	RS80-2B20TQ	1W	
H110689	RS80-2B21T	◎	170.42	184	23	75	107	71	8.6	H112433	RS80-2B21TQ	1W	
H110690	RS80-2B22T	◎	178.48	192	28	80	117	71	9.6	H112434	RS80-2B22TQ	1W	
H110691	RS80-2B23T	◎	186.54	200	28	80	117	71	10.3	H112435	RS80-2B23TQ	1W	
H110692	RS80-2B24T	◎	194.60	208	28	80	117	80	11.8	H112436	RS80-2B24TQ	1W	
H110693	RS80-2B25T	◎	202.66	216	28	80	117	80	12.6	H112437	RS80-2B25TQ	1W	
H110694	RS80-2B26T	◎	210.72	224	28	80	117	80	13.5	H112438	RS80-2B26TQ	1W	
H110695	RS80-2B27T	3W	218.79	233	28	80	117	80	14.4	H112439	RS80-2B27TQ	3W	
H110696	RS80-2B28T	3W	226.86	241	28	80	117	80	15.3	H112440	RS80-2B28TQ	3W	
H110697	RS80-2B30T	◎	243.00	257	28	80	117	80	17.2	H112441	RS80-2B30TQ	1W	
H110698	RS80-2B32T	3W	259.14	273	28	80	117	80	19.3	H112443	RS80-2B32TQ	3W	
H110699	RS80-2B34T	3W	275.28	289	28	80	117	80	21.5	H112444	RS80-2B34TQ	3W	
H110700	RS80-2B35T	◎	283.36	297	28	80	117	80	22.7	H112442	RS80-2B35TQ	1W	
H110701	RS80-2B36T	3W	291.43	306	28	80	117	80	23.9	H112445	RS80-2B36TQ	3W	
H110702	RS80-2B38T	3W	307.58	322	28	80	117	80	26.4	H112446	RS80-2B38TQ	3W	
H110703	RS80-2B40T	◎	323.74	338	33	89	127	90	30.4	H112447	RS80-2B40TQ	1W	
H110704	RS80-2B42T	3W	339.89	354	33	89	127	90	33.2	H112448	RS80-2B42TQ	3W	
H110705	RS80-2B45T	◎	364.12	378	33	89	127	90	37.6	H112449	RS80-2B45TQ	1W	
H110706	RS80-2B48T	3W	388.36	403	33	89	127	90	42.3				
H110707	RS80-2B50T	3W	404.52	419	33	89	127	90	45.7				
H110708	RS80-2B54T	◎	436.84	451	33	89	127	90	52.8				
H110709	RS80-2B60T	◎	485.33	500	33	89	127	90	64.5				
23T and under: Carbon steel for machine structural use, Solid type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			
24T to 45T : Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type													
48T and over: Rolled steel for general structure, Welding type													

Consult your TSUBAKI representative for the numbers of teeth other than the above.

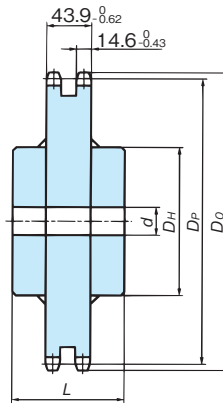
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS80 2C Type



Hanging hole size (No. of teeth: 40T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
40	30	242
42	30	258
45	30	283
48	30	307
50	30	323
54	30	355
60	30	404

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS80 2C Type

● RS80 2C Type Strong (with Hardened Teeth)

Model No. : RS80-2C□□T No. of teeth			Common dimensions							Model No. : RS80-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110710	RS80-2C18T	Q	146.27	159	23	75	98	89	7.8	H112450	RS80-2C18TQ	1W
H110711	RS80-2C19T	Q	154.32	167	23	75	107	94	8.5	H112451	RS80-2C19TQ	1W
H110712	RS80-2C20T	Q	162.37	176	23	75	107	94	10.7	H112452	RS80-2C20TQ	1W
H110713	RS80-2C21T	Q	170.42	184	23	75	107	94	11.4	H112453	RS80-2C21TQ	1W
H110714	RS80-2C22T	Q	178.48	192	28	80	117	100	11.9	H112454	RS80-2C22TQ	1W
H110715	RS80-2C23T	Q	186.54	200	28	80	117	100	12.7	H112455	RS80-2C23TQ	1W
H110716	RS80-2C24T	Q	194.60	208	28	80	117	100	13.4	H112456	RS80-2C24TQ	1W
H110717	RS80-2C25T	Q	202.66	216	28	80	117	100	1.2	H112457	RS80-2C25TQ	1W
H110718	RS80-2C26T	Q	210.72	224	28	80	117	100	15.1	H112458	RS80-2C26TQ	1W
H110719	RS80-2C27T	3W	218.79	233	28	80	117	100	16.0	H112459	RS80-2C27TQ	3W
H110720	RS80-2C28T	3W	226.86	241	28	80	117	100	16.9	H112460	RS80-2C28TQ	3W
H110721	RS80-2C30T	Q	243.00	257	28	80	117	100	18.8	H112461	RS80-2C30TQ	1W
H110722	RS80-2C32T	3W	259.14	273	28	80	117	100	20.9	H112462	RS80-2C32TQ	3W
H110723	RS80-2C34T	3W	275.28	289	28	80	117	100	23.1	H112463	RS80-2C34TQ	3W
H110724	RS80-2C35T	Q	283.36	297	28	89	127	105	25.6	H112464	RS80-2C35TQ	1W
H110725	RS80-2C36T	3W	291.43	306	28	89	127	105	26.8	H112465	RS80-2C36TQ	3W
H110726	RS80-2C38T	3W	307.58	322	28	89	127	105	29.3	H112466	RS80-2C38TQ	3W
H110727	RS80-2C40T	Q	323.74	338	33	89	127	105	31.8	H112467	RS80-2C40TQ	1W
H110728	RS80-2C42T	3W	339.89	354	33	89	127	105	34.6	H112468	RS80-2C42TQ	3W
H110729	RS80-2C45T	Q	364.12	378	33	89	127	105	39.0	H112469	RS80-2C45TQ	1W
H110730	RS80-2C48T	3W	388.36	403	33	89	127	105	43.7			
H110731	RS80-2C50T	3W	404.52	419	33	89	127	105	47.1			
H110732	RS80-2C54T	Q	436.84	451	33	89	127	105	54.2			
H110733	RS80-2C60T	Q	485.33	500	33	89	127	105	65.9			
45T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth)		
48T and over: Rolled steel for general structure, Welding type										Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

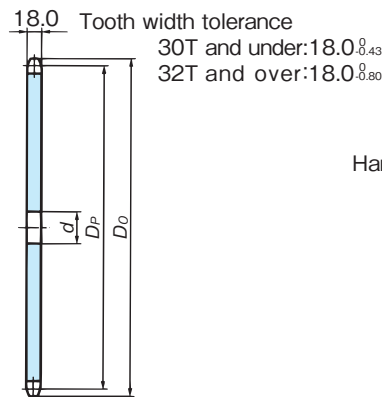
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 1A Type



Hanging hole size (No. of teeth: 48T to 75T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
48	40	392
50	40	412
54	40	453
60	40	513
65	40	564
70	40	614
75	40	665

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 1A Type

● RS100 1A Type Strong (with Hardened Teeth)

Model No. : RS100-1A□□T No. of teeth				Common dimensions				Model No. : RS100-1A□□TQ No. of teeth			
Product code	Model number	Time for delivery	Standard price (Yen)	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery	Standard price (Yen)
H110734	RS100-1A12T	○	1,920	122.67	138	28	1.5	H112470	RS100-1A12TQ	○	2,300
H110735	RS100-1A13T	○	2,180	132.67	148	28	1.7	H112471	RS100-1A13TQ	○	2,460
H110736	RS100-1A14T	○	2,520	142.68	158	28	2.0	H112472	RS100-1A14TQ	○	2,720
H110737	RS100-1A15T	○	2,710	152.71	168	28	2.3	H112473	RS100-1A15TQ	○	2,950
H110738	RS100-1A16T	○	3,000	162.75	179	28	2.6	H112474	RS100-1A16TQ	○	3,300
H110739	RS100-1A17T	○	3,260	172.79	189	28	3.0	H112475	RS100-1A17TQ	○	3,530
H110740	RS100-1A18T	○	3,580	182.84	199	28	3.4	H112476	RS100-1A18TQ	○	3,880
H110741	RS100-1A19T	○	3,960	192.90	209	28	3.7	H112477	RS100-1A19TQ	○	4,290
H110742	RS100-1A20T	○	4,200	202.96	220	28	4.1	H112478	RS100-1A20TQ	○	4,550
H110743	RS100-1A21T	○	4,410	213.03	230	28	4.6	H112479	RS100-1A21TQ	○	4,790
H110744	RS100-1A22T	○	4,640	223.10	240	33	5.1	H112480	RS100-1A22TQ	○	6,240
H110745	RS100-1A23T	○	4,870	233.17	250	33	5.6	H112481	RS100-1A23TQ	○	6,420
H110746	RS100-1A24T	○	5,340	243.25	260	33	6.1	H112482	RS100-1A24TQ	○	6,640
H110747	RS100-1A25T	○	5,520	253.32	270	33	6.3	H112483	RS100-1A25TQ	○	6,860
H110748	RS100-1A26T	○	5,780	263.41	281	33	7.2	H112484	RS100-1A26TQ	○	7,200
H110749	RS100-1A27T	○	6,500	273.49	291	33	7.6	H112485	RS100-1A27TQ	○	7,900
H110750	RS100-1A28T	○	6,840	283.57	301	33	8.0	H112486	RS100-1A28TQ	○	8,540
H110751	RS100-1A30T	○	7,540	303.75	321	33	9.6	H112487	RS100-1A30TQ	○	9,490
H110752	RS100-1A32T	○	8,120	323.92	341	33	10.0	H112488	RS100-1A32TQ	○	10,200
H110753	RS100-1A34T	Q	8,360	344.10	362	33	11.5	H112489	RS100-1A34TQ	Q	10,600
H110754	RS100-1A35T	○	8,610	354.20	372	33	12.0	H112490	RS100-1A35TQ	○	11,500
H110755	RS100-1A36T	○	9,950	364.29	382	33	13.0	H112491	RS100-1A36TQ	○	13,400
H110756	RS100-1A38T	Q	10,200	384.48	402	33	14.5	H112492	RS100-1A38TQ	Q	13,700
H110757	RS100-1A40T	○	10,400	404.67	422	33	16.0	H112493	RS100-1A40TQ	○	14,000
H110758	RS100-1A42T	Q	11,200	424.86	443	33	19.0	H112494	RS100-1A42TQ	Q	15,100
H110759	RS100-1A45T	○	12,100	455.15	473	33	21.0	H112495	RS100-1A45TQ	○	20,000
H110760	RS100-1A48T	○	12,800	485.45	503	33	24.0	H112496	RS100-1A48TQ	○	20,800
H110761	RS100-1A50T	Q	15,700	505.65	524	33	27.0	H112497	RS100-1A50TQ	Q	25,200
H110762	RS100-1A54T	○	16,900	546.05	564	33	30.0	H112498	RS100-1A54TQ	○	27,300
H110763	RS100-1A60T	○	19,800	606.66	625	33	38.0	H112499	RS100-1A60TQ	○	31,700
H110764	RS100-1A65T	Q	23,200	657.17	675	38	46.7	H112500	RS100-1A65TQ	Q	37,200
H110765	RS100-1A70T	○	26,300	707.68	726	38	53.7	H112501	RS100-1A70TQ	○	42,200
H110766	RS100-1A75T	○	29,700	758.20	777	38	61.8	H112502	RS100-1A75TQ	○	47,600
Carbon steel for machine structural use				Material				Carbon steel for machine structural use			

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

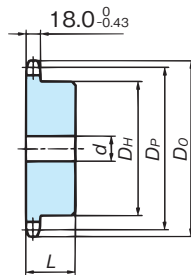
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

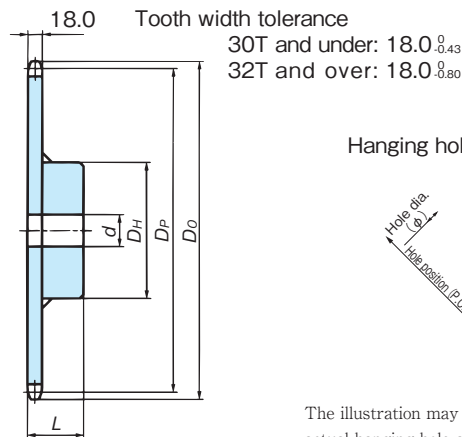
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 1B Type

Machining specifications
(No. of teeth: 30T and under)



Welding specifications
(No. of teeth: 32T and over)



Hanging hole size (No. of teeth: 48T to 75T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
48	40	392
50	40	412
54	40	453
60	40	513
65	40	564
70	40	614
75	40	665

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 1B Type

● RS100 1B Type Strong (with Hardened Teeth)

Model No. : RS100-1B□□T No. of teeth			Common dimensions							Model No. : RS100-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D _P	(Outer diameter) (D _O)	Bore diameter d Pilot bore	Max.	Hub Diameter D _H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H110767	RS100-1B10T	◎	102.75	117	18	43	65	50	1.9			
H110768	RS100-1B11T	◎	112.70	127	23	50	75	50	2.3			
H110769	RS100-1B12T	◎	122.67	138	23	57	86	50	2.9			
H110770	RS100-1B13T	◎	132.67	148	23	59	88	50	3.1			
H110771	RS100-1B14T	◎	142.68	158	23	59	88	50	3.6			
H110772	RS100-1B15T	◎	152.71	168	28	66	98	50	4.2			
H110773	RS100-1B16T	◎	162.75	179	28	66	98	50	4.6			
H110774	RS100-1B17T	◎	172.79	189	28	75	107	50	5.3			
H110775	RS100-1B18T	◎	182.84	199	28	75	107	50	5.7			
H110776	RS100-1B19T	◎	192.90	209	28	75	107	50	6.1			
H110777	RS100-1B20T	◎	202.96	220	28	75	107	50	6.5			
H110778	RS100-1B21T	◎	213.03	230	28	75	107	50	7.0			
H110779	RS100-1B22T	◎	223.10	240	33	80	117	56	7.9	H112503	RS100-1B22TQ	1W
H110780	RS100-1B23T	◎	233.17	250	33	80	117	56	8.4	H112504	RS100-1B23TQ	1W
H110781	RS100-1B24T	◎	243.25	260	33	80	117	56	8.8	H112505	RS100-1B24TQ	1W
H110782	RS100-1B25T	◎	253.32	270	33	80	117	56	9.3	H112506	RS100-1B25TQ	1W
H110783	RS100-1B26T	◎	263.41	281	33	80	117	56	9.8	H112507	RS100-1B26TQ	1W
H110784	RS100-1B27T	◎	273.49	291	33	80	117	56	10.4	H112508	RS100-1B27TQ	1W
H110785	RS100-1B28T	◎	283.57	301	33	80	117	56	10.9	H112509	RS100-1B28TQ	1W
H110786	RS100-1B30T	◎	303.75	321	33	80	117	56	12.4	H112510	RS100-1B30TQ	1W
H110787	RS100-1B32T	◎	323.92	341	33	80	117	56	13.4	H112511	RS100-1B32TQ	Q
H110788	RS100-1B34T	Q	344.10	362	33	89	127	63	16.0	H112512	RS100-1B34TQ	Q
H110789	RS100-1B35T	◎	354.20	372	33	89	127	63	16.6	H112513	RS100-1B35TQ	Q
H110790	RS100-1B36T	◎	364.29	382	33	89	127	63	17.7	H112514	RS100-1B36TQ	Q
H110791	RS100-1B38T	Q	384.48	402	33	89	127	63	19.2	H112515	RS100-1B38TQ	Q
H110792	RS100-1B40T	◎	404.67	422	33	89	127	63	20.4	H112516	RS100-1B40TQ	Q
H110793	RS100-1B42T	Q	424.86	443	33	89	127	63	23.7	H112517	RS100-1B42TQ	Q
H110794	RS100-1B45T	◎	455.15	473	33	89	127	63	24.7	H112518	RS100-1B45TQ	1W
H110795	RS100-1B48T	◎	485.45	503	33	89	127	63	27.5	H112519	RS100-1B48TQ	1W
H110796	RS100-1B50T	Q	505.65	524	33	89	127	63	31.8	H112520	RS100-1B50TQ	1W
H110797	RS100-1B54T	◎	546.05	564	33	103	147	80	37.4	H112521	RS100-1B54TQ	1W
H110798	RS100-1B60T	◎	606.66	625	33	103	147	80	44.3	H112522	RS100-1B60TQ	1W
H110799	RS100-1B65T	Q	657.17	675	38	103	147	80	55.3	H112523	RS100-1B65TQ	1W
H110800	RS100-1B70T	Q	707.68	726	38	103	147	80	62.9	H112524	RS100-1B70TQ	1W
H110801	RS100-1B75T	Q	758.20	777	38	103	147	80	72.1	H112525	RS100-1B75TQ	1W
30T and under: Carbon steel for machine structural use, Solid type 32T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							30T and under: Carbon steel for machine structural use, Solid type 32T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

The 1B-type models in the shaded part of the table are products with hardened teeth.

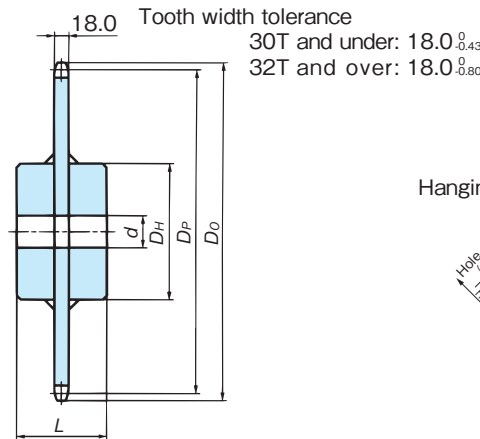
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

□ The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 1C Type



Hanging hole size (No. of teeth: 48T to 75T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
48	40	392
50	40	412
54	40	453
60	40	513
65	40	564
70	40	614
75	40	665

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 1C Type

● RS100 1C Type Strong (with Hardened Teeth)

Model No. : RS100-1C□□T No. of teeth			Common dimensions							Model No. : RS100-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110802	RS100-1C22T	○	223.10	240	33	80	117	80	10.1	H112526	RS100-1C22TQ	○
H110803	RS100-1C23T	Q	233.17	250	33	80	117	80	10.6	H112527	RS100-1C23TQ	○
H110804	RS100-1C24T	○	243.25	260	33	80	117	80	11.2	H112528	RS100-1C24TQ	○
H110805	RS100-1C25T	○	253.32	270	33	80	117	80	11.7	H112529	RS100-1C25TQ	○
H110806	RS100-1C26T	○	263.41	281	33	80	117	80	12.3	H112530	RS100-1C26TQ	○
H110807	RS100-1C27T	Q	273.49	291	33	80	117	80	12.8	H112531	RS100-1C27TQ	○
H110808	RS100-1C28T	○	283.57	301	33	80	117	80	13.5	H112532	RS100-1C28TQ	○
H110809	RS100-1C30T	○	303.75	321	33	80	117	80	14.7	H112533	RS100-1C30TQ	○
H110810	RS100-1C32T	○	323.92	341	33	89	127	90	18.0	H112534	RS100-1C32TQ	Q
H110811	RS100-1C34T	Q	344.10	362	33	89	127	90	19.4	H112535	RS100-1C34TQ	Q
H110812	RS100-1C35T	○	354.20	372	33	89	127	90	20.2	H112536	RS100-1C35TQ	Q
H110813	RS100-1C36T	○	364.29	382	33	89	127	90	21.0	H112537	RS100-1C36TQ	Q
H110814	RS100-1C38T	Q	384.48	402	33	89	127	90	22.6	H112538	RS100-1C38TQ	Q
H110815	RS100-1C40T	○	404.67	422	33	89	127	90	24.4	H112539	RS100-1C40TQ	Q
H110816	RS100-1C42T	Q	424.86	443	33	89	127	90	26.2	H112540	RS100-1C42TQ	Q
H110817	RS100-1C45T	○	455.15	473	33	89	127	90	29.1	H112541	RS100-1C45TQ	1W
H110818	RS100-1C48T	○	485.45	503	33	89	127	90	31.9	H112542	RS100-1C48TQ	1W
H110819	RS100-1C50T	Q	505.65	524	33	89	127	90	34.3	H112543	RS100-1C50TQ	1W
H110820	RS100-1C54T	○	546.05	564	33	103	147	90	41.1	H112544	RS100-1C54TQ	1W
H110821	RS100-1C60T	○	606.66	625	33	103	147	100	49.9	H112545	RS100-1C60TQ	1W
H110822	RS100-1C65T	Q	657.17	675	38	103	147	100	57.0	H112546	RS100-1C65TQ	1W
H110823	RS100-1C70T	○	707.68	726	38	103	147	100	64.0	H112547	RS100-1C70TQ	1W
H110824	RS100-1C75T	○	758.20	777	38	103	147	100	72.1	H112548	RS100-1C75TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

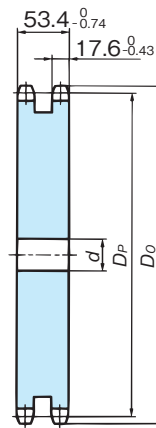
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The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 2A Type



Hanging hole size (No. of teeth: 32T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
32	35	224
34	35	245
35	35	255
36	35	365
38	35	285
40	35	305
42	35	326
45	35	356
48	35	386
50	35	407
54	35	447
60	35	508

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 2A Type

● RS100 2A Type Strong (with Hardened Teeth)

Model No. : RS100-2A□□T No. of teeth			Common dimensions				Model No. : RS100-2A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110825	RS100-2A15T	Q	152.71	168	28	6.3	H112549	RS100-2A15TQ	1W
H110826	RS100-2A16T	Q	162.75	179	28	7.3	H112550	RS100-2A16TQ	1W
H110827	RS100-2A17T	Q	172.79	189	28	8.3	H112551	RS100-2A17TQ	1W
H110828	RS100-2A18T	Q	182.84	199	28	9.4	H112552	RS100-2A18TQ	1W
H110829	RS100-2A19T	Q	192.90	209	28	10.5	H112553	RS100-2A19TQ	1W
H110830	RS100-2A20T	Q	202.96	220	28	11.8	H112554	RS100-2A20TQ	1W
H110831	RS100-2A21T	Q	213.03	230	28	13.1	H112555	RS100-2A21TQ	1W
H110832	RS100-2A22T	3W	223.10	240	33	14.3	H112556	RS100-2A22TQ	3W
H110833	RS100-2A23T	3W	233.17	250	33	15.8	H112557	RS100-2A23TQ	3W
H110834	RS100-2A24T	Q	243.25	260	33	17.3	H112558	RS100-2A24TQ	1W
H110835	RS100-2A25T	3W	253.32	270	33	18.8	H112559	RS100-2A25TQ	3W
H110836	RS100-2A26T	3W	263.41	281	33	20.5	H112560	RS100-2A26TQ	3W
H110837	RS100-2A27T	3W	273.49	291	33	22.1	H112561	RS100-2A27TQ	3W
H110838	RS100-2A28T	3W	283.57	301	33	23.9	H112562	RS100-2A28TQ	3W
H110839	RS100-2A30T	Q	303.75	321	33	27.6	H112563	RS100-2A30TQ	1W
H110840	RS100-2A32T	3W	323.92	341	33	31.6	H112564	RS100-2A32TQ	3W
H110841	RS100-2A34T	3W	344.10	362	33	35.9	H112565	RS100-2A34TQ	3W
H110842	RS100-2A35T	Q	354.20	372	33	38.1	H112566	RS100-2A35TQ	1W
H110843	RS100-2A36T	3W	364.29	382	33	40.4			
H110844	RS100-2A38T	3W	384.48	402	33	45.2			
H110845	RS100-2A40T	Q	404.67	422	33	50.3			
H110846	RS100-2A42T	3W	424.86	443	33	55.6			
H110847	RS100-2A45T	Q	455.15	473	33	64.1			
H110848	RS100-2A48T	3W	485.45	503	33	73.2			
H110849	RS100-2A50T	3W	505.65	524	33	79.6			
H110850	RS100-2A54T	3W	546.05	564	33	93.2			
H110851	RS100-2A60T	Q	606.66	625	33	116.0			
35T and under: Carbon steel for machine structural use, Solid type 36T and over: Rolled steel for general structure, Welding type			Material and specifications				Carbon steel for machine structural use, Solid type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

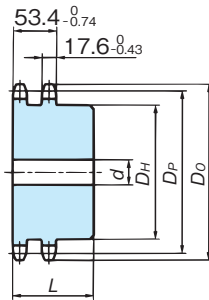
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

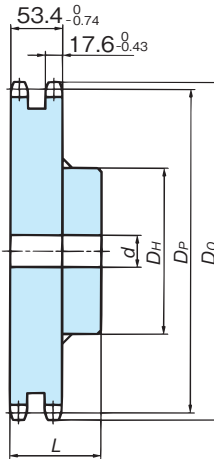
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 2B Type

Machining specifications
(No. of teeth: 18T and under)



Welding specifications
(No. of teeth: 19T and over)



Hanging hole size (No. of teeth: 32T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
32	35	224
34	35	245
35	35	255
36	35	365
38	35	285
40	35	305
42	35	326
45	35	356
48	35	386
50	35	407
54	35	447
60	35	508

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 2B Type

● RS100 2B Type Strong (with Hardened Teeth)

Model No. : RS100-2B□□T No. of teeth			Common dimensions							Model No. : RS100-2B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d Pilot bore	Max.	Hub Diameter D_H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H110852	RS100-2B12T	○	122.67	138	23	58	86	80	5.0	The 2B-type models in the shaded part of the table are products with hardened teeth.		
H110853	RS100-2B13T	○	132.67	148	23	65	95	80	6.0			
H110854	RS100-2B14T	○	142.68	158	23	72	105	80	7.1			
H110855	RS100-2B15T	○	152.71	168	28	66	98	80	7.6	H112567	RS100-2B15TQ	1W
H110856	RS100-2B16T	○	162.75	179	28	66	98	80	8.6	H112568	RS100-2B16TQ	1W
H110857	RS100-2B17T	○	172.79	189	28	75	107	80	9.9	H112569	RS100-2B17TQ	1W
H110858	RS100-2B18T	○	182.84	199	28	75	107	80	11.0	H112570	RS100-2B18TQ	1W
H110859	RS100-2B19T	○	192.90	209	28	89	127	90	13.9	H112571	RS100-2B19TQ	1W
H110860	RS100-2B20T	○	202.96	220	28	89	127	90	15.1	H112572	RS100-2B20TQ	1W
H110861	RS100-2B21T	○	213.03	230	28	89	127	90	16.4	H112573	RS100-2B21TQ	1W
H110862	RS100-2B22T	3W	223.10	240	33	95	137	90	18.1	H112574	RS100-2B22TQ	3W
H110863	RS100-2B23T	3W	233.17	250	33	95	137	90	19.6	H112575	RS100-2B23TQ	3W
H110864	RS100-2B24T	○	243.25	260	33	95	137	90	21.1	H112576	RS100-2B24TQ	1W
H110865	RS100-2B25T	3W	253.32	270	33	95	137	90	22.6	H112577	RS100-2B25TQ	3W
H110866	RS100-2B26T	3W	263.41	281	33	95	137	90	24.2	H112578	RS100-2B26TQ	3W
H110867	RS100-2B27T	3W	273.49	291	33	95	137	90	25.9	H112579	RS100-2B27TQ	3W
H110868	RS100-2B28T	3W	283.57	301	33	95	137	90	27.6	H112580	RS100-2B28TQ	3W
H110869	RS100-2B30T	○	303.75	321	33	95	137	90	31.4	H112581	RS100-2B30TQ	1W
H110870	RS100-2B32T	3W	323.92	341	33	95	137	90	35.3	H112582	RS100-2B32TQ	3W
H110871	RS100-2B34T	3W	344.10	362	33	95	137	90	39.5	H112583	RS100-2B34TQ	3W
H110872	RS100-2B35T	○	354.20	372	33	95	137	90	41.7	H112584	RS100-2B35TQ	1W
H110873	RS100-2B36T	3W	364.29	382	33	95	137	90	44.0			
H110874	RS100-2B38T	3W	384.48	402	33	103	137	90	48.8			
H110875	RS100-2B40T	○	404.67	422	33	103	147	100	55.7			
H110876	RS100-2B42T	3W	424.86	443	33	103	147	100	61.0			
H110877	RS100-2B45T	○	455.15	473	33	103	147	100	69.5			
H110878	RS100-2B48T	3W	485.45	503	33	103	147	115	81.0			
H110879	RS100-2B50T	3W	505.65	524	33	103	147	115	87.4			
H110880	RS100-2B54T	3W	546.05	564	33	103	147	115	101.0			
H110881	RS100-2B60T	1W	606.66	625	33	103	147	115	123.0			
18T and under: Carbon steel for machine structural use, Solid type 19T to 35T : Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type 36T and over: Rolled steel for general structure, Welding type			Material and specifications							18T and under: Carbon steel for machine structural use, Solid type 19T to 35T : Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

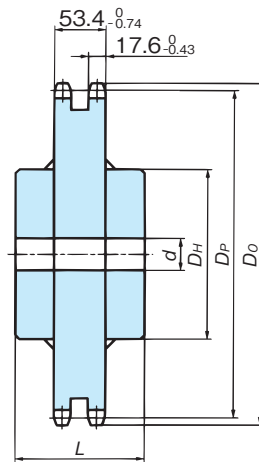
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS100 2C Type



Hanging hole size (No. of teeth: 32T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
32	35	224
34	35	245
35	35	255
36	35	365
38	35	285
40	35	305
42	35	326
45	35	356
48	35	386
50	35	407
54	35	447
60	35	508

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS100 2C Type

● RS100 2C Type Strong (with Hardened Teeth)

Model No. : RS100-2C□□T No. of teeth			Common dimensions							Model No. : RS100-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_O)	Bore diameter d' Pilot bore	Max.	Diameter D_H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H110882	RS100-2C15T	Q	152.71	168	28	66	98	99	8.8	H112585	RS100-2C15TQ	1W
H110883	RS100-2C16T	Q	162.75	179	28	75	107	104	9.7	H112586	RS100-2C16TQ	1W
H110884	RS100-2C17T	Q	172.79	189	28	75	107	104	11.6	H112587	RS100-2C17TQ	1W
H110885	RS100-2C18T	Q	182.84	199	28	75	107	104	12.7	H112588	RS100-2C18TQ	1W
H110886	RS100-2C19T	Q	192.90	209	28	89	127	115	16.8	H112589	RS100-2C19TQ	1W
H110887	RS100-2C20T	Q	202.96	220	28	89	127	115	18.0	H112590	RS100-2C20TQ	1W
H110888	RS100-2C21T	Q	213.03	230	28	89	127	115	19.3	H112591	RS100-2C21TQ	1W
H110889	RS100-2C22T	3W	223.10	240	33	95	137	110	20.3	H112592	RS100-2C22TQ	3W
H110890	RS100-2C23T	3W	233.17	250	33	95	137	110	21.8	H112593	RS100-2C23TQ	3W
H110891	RS100-2C24T	Q	243.25	260	33	95	137	110	23.3	H112594	RS100-2C24TQ	1W
H110892	RS100-2C25T	3W	253.32	270	33	95	137	110	24.8	H112595	RS100-2C25TQ	3W
H110893	RS100-2C26T	3W	263.41	281	33	95	137	110	26.4	H112596	RS100-2C26TQ	3W
H110894	RS100-2C27T	3W	273.49	291	33	95	137	110	28.1	H112597	RS100-2C27TQ	3W
H110895	RS100-2C28T	3W	283.57	301	33	95	137	110	29.8	H112598	RS100-2C28TQ	3W
H110896	RS100-2C30T	Q	303.75	321	33	95	137	110	33.5	H112599	RS100-2C30TQ	1W
H110897	RS100-2C32T	3W	323.92	341	33	95	137	110	37.5	H112600	RS100-2C32TQ	3W
H110898	RS100-2C34T	3W	344.10	362	33	95	137	110	41.7	H112601	RS100-2C34TQ	3W
H110899	RS100-2C35T	Q	354.20	372	33	95	137	110	43.9	H112602	RS100-2C35TQ	1W
H110900	RS100-2C36T	3W	364.29	382	33	95	137	110	46.2			
H110901	RS100-2C38T	3W	384.48	402	33	103	147	120	51.0			
H110902	RS100-2C40T	Q	404.67	422	33	103	147	120	58.3			
H110903	RS100-2C42T	3W	424.86	443	33	103	147	120	63.5			
H110904	RS100-2C45T	Q	455.15	473	33	103	147	120	72.0			
H110905	RS100-2C48T	3W	485.45	503	33	103	147	120	81.0			
H110906	RS100-2C50T	3W	505.65	524	33	103	147	120	87.3			
H110907	RS100-2C54T	3W	546.05	564	33	103	147	120	100.9			
H110908	RS100-2C60T	Q	606.66	625	33	103	147	120	123.1			
35T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		
36T and over: Rolled steel for general structure, Welding type												

Consult your TSUBAKI representative for the numbers of teeth other than the above.

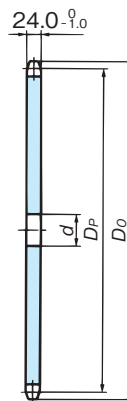
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 1A Type



Hanging hole size (No. of teeth: 35T to 75T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
35	40	322
36	40	344
38	40	359
40	40	383
42	40	407
45	40	443
48	40	480
50	40	504
54	40	553
60	40	625
65	40	686
70	40	746
75	40	807

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 1A Type

● RS120 1A Type Strong (with Hardened Teeth)

Model No. : RS120-1A□□T No. of teeth			Common dimensions				Model No. : RS120-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H110909	RS120-1A12T	2W	147.21	165	28	3.0	H112603	RS120-1A12TQ	2W
H110910	RS120-1A13T	○	159.20	177	28	3.3	H112604	RS120-1A13TQ	○
H110911	RS120-1A14T	○	171.22	190	28	3.9	H112605	RS120-1A14TQ	○
H110912	RS120-1A15T	○	183.25	202	33	4.5	H112606	RS120-1A15TQ	○
H110913	RS120-1A16T	○	195.29	214	33	5.1	H112607	RS120-1A16TQ	○
H110914	RS120-1A17T	○	207.35	227	33	5.8	H112608	RS120-1A17TQ	○
H110915	RS120-1A18T	○	219.41	239	33	6.5	H112609	RS120-1A18TQ	○
H110916	RS120-1A19T	○	231.48	251	33	7.3	H112610	RS120-1A19TQ	○
H110917	RS120-1A20T	○	243.55	263	33	8.1	H112611	RS120-1A20TQ	○
H110918	RS120-1A21T	○	255.63	276	33	9.0	H112612	RS120-1A21TQ	○
H110919	RS120-1A22T	Q	267.72	288	33	9.7	H112613	RS120-1A22TQ	Q
H110920	RS120-1A23T	Q	279.80	300	33	10.4	H112614	RS120-1A23TQ	Q
H110921	RS120-1A24T	Q	291.90	312	33	11.0	H112615	RS120-1A24TQ	Q
H110922	RS120-1A25T	Q	303.99	324	33	12.0	H112616	RS120-1A25TQ	Q
H110923	RS120-1A26T	Q	316.09	337	33	13.0	H112617	RS120-1A26TQ	Q
H110924	RS120-1A27T	Q	328.19	349	33	14.0	H112618	RS120-1A27TQ	Q
H110925	RS120-1A28T	Q	340.29	361	33	15.0	H112619	RS120-1A28TQ	Q
H110926	RS120-1A30T	Q	364.49	385	33	18.0	H112620	RS120-1A30TQ	Q
H110927	RS120-1A32T	Q	388.71	410	33	21.0	H112621	RS120-1A32TQ	Q
H110928	RS120-1A34T	Q	412.93	434	33	24.0	H112622	RS120-1A34TQ	Q
H110929	RS120-1A35T	Q	425.04	446	33	25.0	H112623	RS120-1A35TQ	Q
H110930	RS120-1A36T	Q	437.15	458	33	26.0	H112624	RS120-1A36TQ	1W
H110931	RS120-1A38T	Q	461.37	483	38	30.6	H112625	RS120-1A38TQ	1W
H110932	RS120-1A40T	Q	485.60	507	38	32.0	H112626	RS120-1A40TQ	1W
H110933	RS120-1A42T	Q	509.83	531	38	37.5	H112627	RS120-1A42TQ	1W
H110934	RS120-1A45T	Q	546.19	568	38	41.0	H112628	RS120-1A45TQ	1W
H110935	RS120-1A48T	Q	582.54	604	38	48.6	H112629	RS120-1A48TQ	1W
H110936	RS120-1A50T	Q	606.78	628	38	53.1	H112630	RS120-1A50TQ	1W
H110937	RS120-1A54T	Q	655.26	677	38	61.6	H112631	RS120-1A54TQ	1W
H110938	RS120-1A60T	Q	727.99	750	38	74.0	H112632	RS120-1A60TQ	1W
H110939	RS120-1A65T	Q	788.60	811	38	89.9	H112633	RS120-1A65TQ	1W
H110940	RS120-1A70T	Q	849.22	871	38	103.6	H112634	RS120-1A70TQ	1W
H110941	RS120-1A75T	Q	909.84	932	38	119.0	H112635	RS120-1A75TQ	1W
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

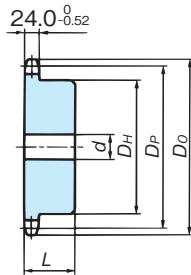
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

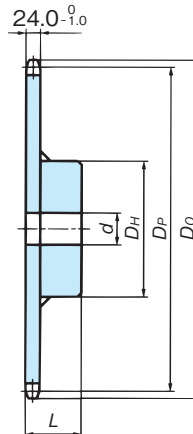
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 1B Type

Machining specifications
(No. of teeth: 21T and under)



Welding specifications
(No. of teeth: 22T and over)



Hanging hole size (No. of teeth: 35T to 75T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
35	40	322
36	40	344
38	40	359
40	40	383
42	40	407
45	40	443
48	40	480
50	40	504
54	40	553
60	40	625
65	40	686
70	40	746
75	40	807

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 1B Type

● RS120 1B Type Strong (with Hardened Teeth)

Model No. : RS120-1B□□T No. of teeth			Common dimensions							Model No. : RS120-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D _P	(Outer diameter) (D _O)	Bore diameter d'	Hub Diameter D _H	Length L	Approx. mass (kg)		Product code	Model number	Time for delivery
H110942	RS120-1B10T	○	123.29	140	23	51	78	3.2				
H110943	RS120-1B11T	○	135.23	153	28	60	91	4.0				
H110944	RS120-1B12T	○	147.21	165	28	66	98	4.8				
H110945	RS120-1B13T	○	159.20	177	28	66	98	5.3				
H110946	RS120-1B14T	○	171.22	190	28	75	107	6.3				
H110947	RS120-1B15T	○	183.25	202	33	80	117	7.8				
H110948	RS120-1B16T	○	195.29	214	33	80	117	8.4				
H110949	RS120-1B17T	○	207.35	227	33	80	117	9.1				
H110950	RS120-1B18T	○	219.41	239	33	80	117	9.9				
H110951	RS120-1B19T	○	231.48	251	33	80	117	10.7				
H110952	RS120-1B20T	○	243.55	263	33	89	127	12.1				
H110953	RS120-1B21T	○	255.63	276	33	89	127	13.0				
H110954	RS120-1B22T	○	267.72	288	33	89	127	13.4				
H110955	RS120-1B23T	Q	279.80	300	33	89	127	14.8				
H110956	RS120-1B24T	○	291.90	312	33	89	127	15.2				
H110957	RS120-1B25T	○	303.99	324	33	89	127	16.2				
H110958	RS120-1B26T	○	316.09	337	33	89	127	17.2				
H110959	RS120-1B27T	Q	328.19	349	33	89	127	19.1				
H110960	RS120-1B28T	○	340.29	361	33	103	147	20.9				
H110961	RS120-1B30T	○	364.49	385	33	103	147	23.2				
H110962	RS120-1B32T	○	388.71	410	33	103	147	25.7				
H110963	RS120-1B34T	Q	412.93	434	33	103	147	28.5				
H110964	RS120-1B35T	○	425.04	446	33	103	147	29.7				
H110965	RS120-1B36T	○	437.15	458	33	103	147	31.3				
H110966	RS120-1B38T	Q	461.37	483	38	103	147	37.0				
H110967	RS120-1B40T	○	485.60	507	38	103	147	38.2				
H110968	RS120-1B42T	Q	509.83	531	38	103	147	44.5				
H110969	RS120-1B45T	○	546.19	568	38	103	147	47.6				
H110970	RS120-1B48T	○	582.54	604	38	103	147	53.0				
H110971	RS120-1B50T	Q	606.78	628	38	103	147	60.2				
H110972	RS120-1B54T	Q	655.26	677	38	110	157	71.5				
H110973	RS120-1B60T	Q	727.99	750	38	110	157	86.1				
H110974	RS120-1B65T	Q	788.60	811	38	118	167	103.0				
H110975	RS120-1B70T	Q	849.22	871	38	118	167	117.0				
H110976	RS120-1B75T	Q	909.84	932	38	118	167	133.0				
21T and under: Carbon steel for machine structural use, Solid type 22T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

The 1B-type models in the shaded part of the table are products with hardened teeth.

Consult your TSUBAKI representative for the numbers of teeth other than the above.

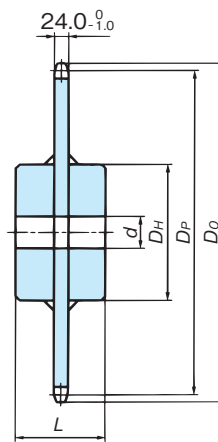
(Time for delivery) ○ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 1C Type



Hanging hole size (No. of teeth: 35T to 75T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
35	40	322
36	40	344
38	40	359
40	40	383
42	40	407
45	40	443
48	40	480
50	40	504
54	40	553
60	40	625
65	40	686
70	40	746
75	40	807

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 1C Type

● RS120 1C Type Strong (with Hardened Teeth)

Model No. : RS120-1C□□T No. of teeth			Common dimensions							Model No. : RS120-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H110977	RS120-1C22T	Q	267.72	288	33	89	127	80	15.5	H112659	RS120-1C22TQ	Q
H110978	RS120-1C23T	Q	279.80	300	33	89	127	80	16.4	H112660	RS120-1C23TQ	Q
H110979	RS120-1C24T	Q	291.90	312	33	89	127	80	17.4	H112661	RS120-1C24TQ	Q
H110980	RS120-1C25T	Q	303.99	324	33	89	127	80	18.5	H112662	RS120-1C25TQ	Q
H110981	RS120-1C26T	Q	316.09	337	33	89	127	80	19.6	H112663	RS120-1C26TQ	Q
H110982	RS120-1C27T	Q	328.19	349	33	89	127	80	20.7	H112664	RS120-1C27TQ	Q
H110983	RS120-1C28T	Q	340.29	361	33	95	137	100	25.0	H112665	RS120-1C28TQ	Q
H110984	RS120-1C30T	Q	364.49	385	33	95	137	100	27.4	H112666	RS120-1C30TQ	Q
H110985	RS120-1C32T	Q	388.71	410	33	95	137	100	29.7	H112667	RS120-1C32TQ	Q
H110986	RS120-1C34T	Q	412.93	434	33	95	137	100	32.9	H112668	RS120-1C34TQ	Q
H110987	RS120-1C35T	Q	425.04	446	33	95	137	100	33.9	H112669	RS120-1C35TQ	Q
H110988	RS120-1C36T	Q	437.15	458	33	95	137	100	35.5	H112670	RS120-1C36TQ	1W
H110989	RS120-1C38T	Q	461.37	483	38	103	147	100	41.4	H112671	RS120-1C38TQ	1W
H110990	RS120-1C40T	Q	485.60	507	38	103	147	100	43.1	H112672	RS120-1C40TQ	1W
H110991	RS120-1C42T	Q	509.83	531	38	103	147	110	48.2	H112673	RS120-1C42TQ	1W
H110992	RS120-1C45T	Q	546.19	568	38	103	147	110	53.5	H112674	RS120-1C45TQ	1W
H110993	RS120-1C48T	Q	582.54	604	38	103	147	110	59.3	H112675	RS120-1C48TQ	1W
H110994	RS120-1C50T	Q	606.78	628	38	103	147	110	63.9	H112676	RS120-1C50TQ	1W
H110995	RS120-1C54T	Q	655.26	677	38	103	147	110	72.4	H112677	RS120-1C54TQ	1W
H110996	RS120-1C60T	Q	727.99	750	38	118	167	120	91.8	H112678	RS120-1C60TQ	1W
H110997	RS120-1C65T	Q	788.60	811	38	118	167	120	105.6	H112679	RS120-1C65TQ	1W
H110998	RS120-1C70T	Q	849.22	871	38	118	167	120	119.6	H112680	RS120-1C70TQ	1W
H110999	RS120-1C75T	Q	909.84	932	38	118	167	120	134.2	H112681	RS120-1C75TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

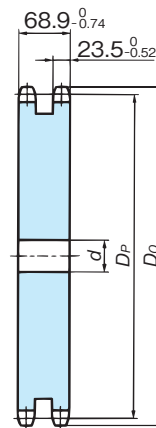
〈Time for delivery〉 ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 2A Type



Hanging hole size (No. of teeth: 30T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
30	35	258
32	35	382
34	35	307
35	35	319
36	35	331
38	35	355
40	35	380
42	35	404
45	35	440
48	35	477
50	35	501
54	35	550
60	35	623

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 2A Type

● RS120 2A Type Strong (with Hardened Teeth)

Model No. : RS120-2A□□T No. of teeth			Common dimensions				Model No. : RS120-2A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H111000	RS120-2A14T	Q	171.22	190	28	10.3	H112682	RS120-2A14TQ	1W
H111001	RS120-2A15T	Q	183.25	202	33	11.9	H112683	RS120-2A15TQ	1W
H111002	RS120-2A16T	Q	195.29	214	33	13.6	H112684	RS120-2A16TQ	1W
H111003	RS120-2A17T	Q	207.35	227	33	15.6	H112685	RS120-2A17TQ	1W
H111004	RS120-2A18T	Q	219.41	239	33	17.6	H112686	RS120-2A18TQ	1W
H111005	RS120-2A19T	Q	231.48	251	33	19.8	H112687	RS120-2A19TQ	1W
H111006	RS120-2A20T	Q	243.55	263	33	22.1	H112688	RS120-2A20TQ	1W
H111007	RS120-2A21T	Q	255.63	276	33	24.5	H112689	RS120-2A21TQ	1W
H111008	RS120-2A22T	3W	267.72	288	33	27.0	H112690	RS120-2A22TQ	3W
H111009	RS120-2A23T	3W	279.80	300	33	29.7	H112691	RS120-2A23TQ	3W
H111010	RS120-2A24T	Q	291.90	312	33	32.5	H112692	RS120-2A24TQ	1W
H111011	RS120-2A25T	3W	303.99	324	33	35.4	H112693	RS120-2A25TQ	3W
H111012	RS120-2A26T	3W	316.09	337	33	38.4	H112694	RS120-2A26TQ	3W
H111013	RS120-2A27T	3W	328.19	349	33	41.6	H112695	RS120-2A27TQ	3W
H111014	RS120-2A28T	3W	340.29	361	33	44.9	H112696	RS120-2A28TQ	3W
H111015	RS120-2A30T	Q	364.49	385	33	51.8	H112697	RS120-2A30TQ	1W
H111016	RS120-2A32T	3W	388.71	410	33	59.3			
H111017	RS120-2A34T	3W	412.93	434	33	67.2			
H111018	RS120-2A35T	Q	425.04	446	33	71.4			
H111019	RS120-2A36T	3W	437.15	458	38	75.5			
H111020	RS120-2A38T	3W	461.37	483	38	84.5			
H111021	RS120-2A40T	Q	485.60	507	38	93.9			
H111022	RS120-2A42T	3W	509.83	531	38	104.0			
H111023	RS120-2A45T	Q	546.19	568	38	120.0			
H111024	RS120-2A48T	3W	582.54	604	38	137.0			
H111025	RS120-2A50T	3W	606.78	628	38	149.0			
H111026	RS120-2A54T	3W	655.26	677	38	174.0			
H111027	RS120-2A60T	Q	727.99	750	38	216.0			
30T and under: Carbon steel for machine structural use, Solid type 32T and over: Rolled steel for general structure, Welding type			Material and specifications				30T and under: Carbon steel for machine structural use, Solid type 32T and over: Rolled steel for general structure, Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

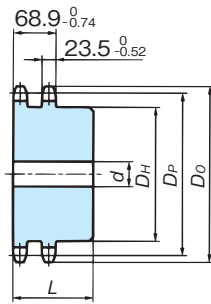
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

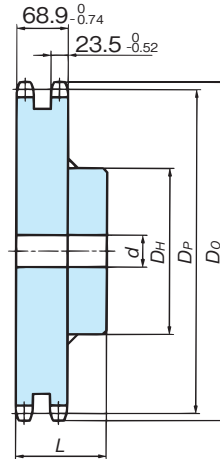
Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 2B Type

Machining specifications
(No. of teeth: 13T and under)



Welding specifications
(No. of teeth: 14T and over)



Hanging hole size (No. of teeth: 30T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
30	35	258
32	35	382
34	35	307
35	35	319
36	35	331
38	35	355
40	35	380
42	35	404
45	35	440
48	35	477
50	35	501
54	35	550
60	35	623

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 2B Type

● RS120 2B Type Strong (with Hardened Teeth)

Model no. : RS120-2B□□T No. of teeth				Common dimensions							Model no. : RS120-2B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Standard price (Yen)	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
H111028	RS120-2B12T	◎	11,200	147.21	165	28	71	103	100	9.2	The 2B-type models in the shaded part of the table are products with hardened teeth.		
H111029	RS120-2B13T	◎	12,400	159.20	177	28	80	115	100	11.1			
H111030	RS120-2B14T	◎	12,000	171.22	190	28	75	107	100	12.2			
H111031	RS120-2B15T	◎	12,700	183.25	202	33	80	117	100	14.1			
H111032	RS120-2B16T	◎	14,000	195.29	214	33	80	117	100	15.9			
H111033	RS120-2B17T	◎	15,700	207.35	227	33	80	117	100	17.8	H112698	RS120-2B14TQ	1W
H111034	RS120-2B18T	◎	17,800	219.41	239	33	89	127	100	20.3	H112699	RS120-2B15TQ	1W
H111035	RS120-2B19T	◎	20,000	231.48	251	33	89	127	100	22.4	H112700	RS120-2B16TQ	1W
H111036	RS120-2B20T	◎	22,400	243.55	263	33	89	127	100	24.7	H112701	RS120-2B17TQ	1W
H111037	RS120-2B21T	◎	25,500	255.63	276	33	89	127	100	27.1	H112702	RS120-2B18TQ	1W
H111038	RS120-2B22T	3W	43,800	267.72	288	33	110	157	100	31.3	H112703	RS120-2B19TQ	1W
H111039	RS120-2B23T	3W	49,300	279.80	300	33	110	157	100	33.9	H112704	RS120-2B20TQ	1W
H111040	RS120-2B24T	◎	36,300	291.90	312	33	110	157	100	36.7	H112705	RS120-2B21TQ	1W
H111041	RS120-2B25T	3W	56,100	303.99	324	33	110	157	100	39.6	H112706	RS120-2B22TQ	3W
H111042	RS120-2B26T	3W	57,900	316.09	337	33	110	157	100	42.8	H112707	RS120-2B23TQ	3W
H111043	RS120-2B27T	3W	59,400	328.19	349	33	110	157	100	45.9	H112708	RS120-2B24TQ	1W
H111044	RS120-2B28T	3W	61,400	340.29	361	33	110	157	100	49.1	H112709	RS120-2B25TQ	3W
H111045	RS120-2B30T	◎	41,400	364.49	385	33	110	157	100	55.9	H112710	RS120-2B26TQ	3W
H111046	RS120-2B32T	3W	67,100	388.71	410	33	110	157	100	63.4	H112711	RS120-2B27TQ	3W
H111047	RS120-2B34T	3W	72,200	412.93	434	33	110	157	100	71.3	H112712	RS120-2B28TQ	3W
H111048	RS120-2B35T	◎	51,500	425.04	446	33	110	157	100	75.2	H112713	RS120-2B30TQ	1W
H111049	RS120-2B36T	3W	77,200	437.15	458	38	110	157	100	79.9			
H111050	RS120-2B38T	3W	81,500	461.37	483	38	110	157	100	88.9			
H111051	RS120-2B40T	1W	58,700	485.60	507	38	120	177	110	101.0			
H111052	RS120-2B42T	3W	90,100	509.83	531	38	120	177	110	111.0			
H111053	RS120-2B45T	1W	66,100	546.19	568	38	120	177	110	127.0			
H111054	RS120-2B48T	3W	103,000	582.54	604	38	120	177	110	144.0			
H111055	RS120-2B50T	3W	107,000	606.78	628	38	120	177	110	156.0			
H111056	RS120-2B54T	3W	116,000	655.26	677	38	120	177	110	181.0			
H111057	RS120-2B60T	1W	88,200	727.99	750	38	120	177	110	223.0			
13T and under: Carbon steel for machine structural use, Solid type 14T to 30T : Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type 32T and over: Rolled steel for general structure, Welding type				Material and specifications							13T and under: Carbon steel for machine structural use, Solid type 14T to 30T : Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type 32T and over: Rolled steel for general structure, Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

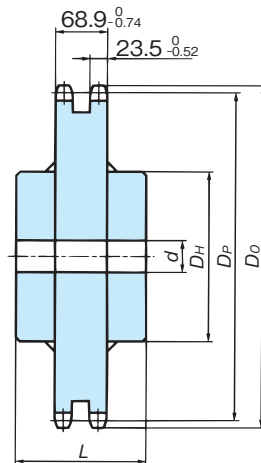
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS120 2C Type



Hanging hole size (No. of teeth: 30T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
30	35	258
32	35	382
34	35	307
35	35	319
36	35	331
38	35	355
40	35	380
42	35	404
45	35	440
48	35	477
50	35	501
54	35	550
60	35	623

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS120 2C Type

● RS120 2C Type Strong (with Hardened Teeth)

Model No. : RS120-2C□□T No. of teeth			Common dimensions							Model No. : RS120-2C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H111058	RS120-2C14T	Q	171.22	190	28	75	107	114	13.3	H112714	RS120-2C14TQ	1W
H111059	RS120-2C15T	Q	183.25	202	33	80	117	119	15.7	H112715	RS120-2C15TQ	1W
H111060	RS120-2C16T	Q	195.29	214	33	80	117	119	17.5	H112716	RS120-2C16TQ	1W
H111061	RS120-2C17T	Q	207.35	227	33	80	117	119	19.4	H112717	RS120-2C17TQ	1W
H111062	RS120-2C18T	Q	219.41	239	33	89	127	125	22.8	H112718	RS120-2C18TQ	1W
H111063	RS120-2C19T	Q	231.48	251	33	89	127	125	25.0	H112719	RS120-2C19TQ	1W
H111064	RS120-2C20T	Q	243.55	263	33	89	127	125	27.2	H112720	RS120-2C20TQ	1W
H111065	RS120-2C21T	Q	255.63	276	33	89	127	125	29.7	H112721	RS120-2C21TQ	1W
H111066	RS120-2C22T	3W	267.72	288	33	110	157	135	36.3	H112722	RS120-2C22TQ	3W
H111067	RS120-2C23T	3W	279.80	300	33	110	157	135	39.0	H112723	RS120-2C23TQ	3W
H111068	RS120-2C24T	Q	291.90	312	33	110	157	135	41.8	H112724	RS120-2C24TQ	1W
H111069	RS120-2C25T	3W	303.99	324	33	110	157	135	44.7	H112725	RS120-2C25TQ	3W
H111070	RS120-2C26T	3W	316.09	337	33	110	157	135	48.1	H112726	RS120-2C26TQ	3W
H111071	RS120-2C27T	3W	328.19	349	33	110	157	135	51.2	H112727	RS120-2C27TQ	3W
H111072	RS120-2C28T	3W	340.29	361	33	110	157	135	54.5	H112728	RS120-2C28TQ	3W
H111073	RS120-2C30T	Q	364.49	385	33	110	157	135	61.4	H112729	RS120-2C30TQ	1W
H111074	RS120-2C32T	3W	388.71	410	33	110	157	135	68.8			
H111075	RS120-2C34T	3W	412.93	434	33	110	157	135	76.6			
H111076	RS120-2C35T	Q	425.04	446	33	110	157	135	80.7			
H111077	RS120-2C36T	3W	437.15	458	33	110	157	135	84.6			
H111078	RS120-2C38T	3W	461.37	483	33	110	157	135	93.4			
H111079	RS120-2C40T	Q	485.60	507	38	120	177	160	109.8			
H111080	RS120-2C42T	3W	509.83	531	38	120	177	160	119.7			
H111081	RS120-2C45T	Q	546.19	568	38	120	177	160	136.2			
H111082	RS120-2C48T	3W	582.54	604	38	120	177	160	152.9			
H111083	RS120-2C50T	3W	606.78	628	38	120	177	160	164.9			
H111084	RS120-2C54T	3W	655.26	677	38	120	177	160	189.9			
H111085	RS120-2C60T	Q	727.99	750	38	120	177	160	231.3			
30T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							30T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		
32T and over: Rolled steel for general structure, Welding type										32T and over: Rolled steel for general structure, Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

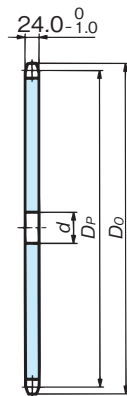
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS140 1A Type



Hanging hole size (No. of teeth: 26T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
26	40	263	38	40	432
27	40	277	40	40	461
28	40	291	42	40	489
30	40	319	45	40	531
32	40	348	48	40	574
34	40	376	50	40	602
35	40	390	54	40	659
36	40	404	60	40	743

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS140 1A Type

● RS140 1A Type Strong (with Hardened Teeth)

Model No. : RS140-1A□□T No. of teeth			Common dimensions				Model No. : RS140-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H111086	RS140-1A10T	2W	143.84	163	28	2.8	H112730	RS140-1A10TQ	2W
H111087	RS140-1A11T	2W	157.77	178	33	3.3	H112731	RS140-1A11TQ	2W
H111088	RS140-1A12T	2W	171.74	193	33	4.0	H112732	RS140-1A12TQ	2W
H111089	RS140-1A13T	2W	185.74	207	33	4.6	H112733	RS140-1A13TQ	2W
H111090	RS140-1A14T	2W	199.76	221	33	5.4	H112734	RS140-1A14TQ	2W
H111091	RS140-1A15T	2W	213.79	236	33	6.2	H112735	RS140-1A15TQ	2W
H111092	RS140-1A16T	2W	227.84	250	33	7.0	H112736	RS140-1A16TQ	2W
H111093	RS140-1A17T	2W	241.91	264	33	8.0	H112737	RS140-1A17TQ	2W
H111094	RS140-1A18T	2W	255.98	279	33	8.9	H112738	RS140-1A18TQ	2W
H111095	RS140-1A19T	2W	270.06	293	33	10.0	H112739	RS140-1A19TQ	2W
H111096	RS140-1A20T	2W	284.14	307	33	11.0	H112740	RS140-1A20TQ	2W
H111097	RS140-1A21T	2W	298.24	322	33	12.2	H112741	RS140-1A21TQ	2W
H111098	RS140-1A22T	Q	312.34	336	33	13.4	H112742	RS140-1A22TQ	1W
H111099	RS140-1A23T	Q	326.44	350	33	14.6	H112743	RS140-1A23TQ	1W
H111100	RS140-1A24T	Q	340.54	364	33	15.9	H112744	RS140-1A24TQ	1W
H111101	RS140-1A25T	Q	354.65	379	38	17.2	H112745	RS140-1A25TQ	1W
H111102	RS140-1A26T	Q	368.77	393	38	19.3	H112746	RS140-1A26TQ	1W
H111103	RS140-1A27T	Q	382.88	407	38	21.0	H112747	RS140-1A27TQ	1W
H111104	RS140-1A28T	Q	397.00	421	38	22.6	H112748	RS140-1A28TQ	1W
H111105	RS140-1A30T	Q	425.24	450	38	25.8	H112749	RS140-1A30TQ	1W
H111106	RS140-1A32T	Q	453.49	478	38	29.6	H112750	RS140-1A32TQ	1W
H111107	RS140-1A34T	Q	481.75	506	38	33.4	H112751	RS140-1A34TQ	1W
H111108	RS140-1A35T	Q	495.88	521	38	35.1	H112752	RS140-1A35TQ	1W
H111109	RS140-1A36T	Q	510.01	535	38	37.5	H112753	RS140-1A36TQ	1W
H111110	RS140-1A38T	Q	538.27	563	38	41.8	H112754	RS140-1A38TQ	1W
H111111	RS140-1A40T	Q	566.54	591	38	45.9	H112755	RS140-1A40TQ	1W
H111112	RS140-1A42T	Q	594.81	620	38	51.1	H112756	RS140-1A42TQ	1W
H111113	RS140-1A45T	Q	637.22	662	38	58.2	H112757	RS140-1A45TQ	1W
H111114	RS140-1A48T	Q	679.63	705	38	66.2	H112758	RS140-1A48TQ	1W
H111115	RS140-1A50T	Q	707.91	733	38	72.4	H112759	RS140-1A50TQ	1W
H111116	RS140-1A54T	Q	764.47	790	38	84.5	H112760	RS140-1A54TQ	1W
H111117	RS140-1A60T	Q	849.32	875	38	103.6	H112761	RS140-1A60TQ	1W
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

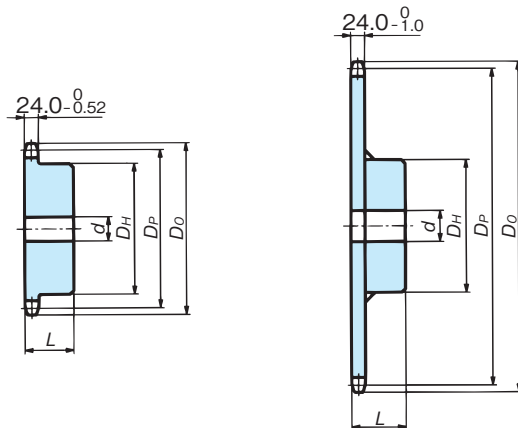
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS140 1B Type

Machining specifications (No. of teeth: 21T and under) Welding specifications (No. of teeth: 22T and over)



Hanging hole size (No. of teeth: 26T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
26	40	263	38	40	432
27	40	277	40	40	461
28	40	291	42	40	489
30	40	319	45	40	531
32	40	348	48	40	574
34	40	376	50	40	602
35	40	390	54	40	659
36	40	404	60	40	743

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS140 1B Type

● RS140 1B Type Strong (with Hardened Teeth)

Model No. : RS140-1B□□T No. of teeth			Common dimensions							Model No. : RS140-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_O)	Bore diameter d' Pilot bore	Max.	Diameter D_H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H111118	RS140-1B10T	◎	143.84	163	28	60	91	56	4.4			
H111119	RS140-1B11T	◎	157.77	178	33	73	106	56	5.5			
H111120	RS140-1B12T	◎	171.74	193	33	80	117	56	6.6			
H111121	RS140-1B13T	◎	185.74	207	33	80	117	63	7.9			
H111122	RS140-1B14T	◎	199.76	221	33	89	127	63	9.3			
H111123	RS140-1B15T	◎	213.79	236	33	89	127	63	10.1			
H111124	RS140-1B16T	◎	227.84	250	33	89	127	63	11.0			
H111125	RS140-1B17T	◎	241.91	264	33	89	127	63	12.0			
H111126	RS140-1B18T	◎	255.98	279	33	89	127	63	13.0			
H111127	RS140-1B19T	◎	270.06	293	33	95	137	71	15.6			
H111128	RS140-1B20T	◎	284.14	307	33	95	137	71	16.7			
H111129	RS140-1B21T	◎	298.24	322	33	95	137	71	18.4			
H111130	RS140-1B22T	◎	312.34	336	33	103	147	71	20.5	H112762	RS140-1B22TQ	1W
H111131	RS140-1B23T	Q	326.44	350	33	103	147	71	20.9	H112763	RS140-1B23TQ	1W
H111132	RS140-1B24T	◎	340.54	364	33	103	147	71	24.1	H112764	RS140-1B24TQ	1W
H111133	RS140-1B25T	◎	354.65	379	38	103	147	80	25.5	H112765	RS140-1B25TQ	1W
H111134	RS140-1B26T	◎	368.77	393	38	103	147	80	28.1	H112766	RS140-1B26TQ	1W
H111135	RS140-1B27T	Q	382.88	407	38	103	147	80	29.7	H112767	RS140-1B27TQ	1W
H111136	RS140-1B28T	Q	397.00	421	38	103	147	80	31.5	H112768	RS140-1B28TQ	1W
H111137	RS140-1B30T	◎	425.24	450	38	103	147	80	36.6	H112769	RS140-1B30TQ	1W
H111138	RS140-1B32T	Q	453.49	478	38	103	147	80	40.4	H112770	RS140-1B32TQ	1W
H111139	RS140-1B34T	Q	481.75	506	38	103	147	80	42.9	H112771	RS140-1B34TQ	1W
H111140	RS140-1B35T	◎	495.88	521	38	110	157	90	47.0	H112772	RS140-1B35TQ	1W
H111141	RS140-1B36T	Q	510.01	535	38	110	157	90	51.3	H112773	RS140-1B36TQ	1W
H111142	RS140-1B38T	Q	538.27	563	38	110	157	90	53.1	H112774	RS140-1B38TQ	1W
H111143	RS140-1B40T	◎	566.54	591	38	110	157	90	56.4	H112775	RS140-1B40TQ	1W
H111144	RS140-1B42T	Q	594.81	620	38	118	167	94	63.2	H112776	RS140-1B42TQ	1W
H111145	RS140-1B45T	Q	637.22	662	38	118	167	94	70.8	H112777	RS140-1B45TQ	1W
H111146	RS140-1B48T	Q	679.63	705	38	118	167	94	79.0	H112778	RS140-1B48TQ	1W
H111147	RS140-1B50T	Q	707.91	733	38	118	167	94	84.8	H112779	RS140-1B50TQ	1W
H111148	RS140-1B54T	Q	764.47	790	38	118	167	94	97.1	H112780	RS140-1B54TQ	1W
H111149	RS140-1B60T	Q	849.32	875	38	118	167	94	117.0	H112781	RS140-1B60TQ	1W
21T and under: Carbon steel for machine structural use, Solid type 22T and over: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

The 1B-type models in the shaded part of the table are products with hardened teeth.

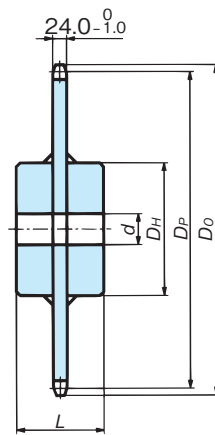
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

□ The models in the shaded part are products with hardened teeth.

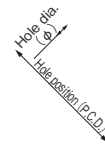
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS140 1C Type



Hanging hole size (No. of teeth: 26T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
26	40	263	38	40	432
27	40	277	40	40	461
28	40	291	42	40	489
30	40	319	45	40	531
32	40	348	48	40	574
34	40	376	50	40	602
35	40	390	54	40	659
36	40	404	60	40	743

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS140 1C Type

● RS140 1C Type Strong (with Hardened Teeth)

Model No. : RS140-1C□□T No. of teeth			Common dimensions							Model No. : RS140-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
					Pilot bore	Max.	Diameter D_H	Length L				
H111150	RS140-1C22T	Q	312.34	336	33	103	147	115	24.0	H112782	RS140-1C22TQ	1W
H111151	RS140-1C23T	Q	326.44	350	33	103	147	115	25.3	H112783	RS140-1C23TQ	1W
H111152	RS140-1C24T	Q	340.54	364	33	103	147	115	26.6	H112784	RS140-1C24TQ	1W
H111153	RS140-1C25T	Q	354.65	379	38	103	147	115	29.4	H112785	RS140-1C25TQ	1W
H111154	RS140-1C26T	Q	368.77	393	38	103	147	115	30.5	H112786	RS140-1C26TQ	1W
H111155	RS140-1C27T	Q	382.88	407	38	103	147	115	32.4	H112787	RS140-1C27TQ	1W
H111156	RS140-1C28T	Q	397.00	421	38	103	147	115	34.0	H112788	RS140-1C28TQ	1W
H111157	RS140-1C30T	Q	425.24	450	38	103	147	115	37.0	H112789	RS140-1C30TQ	1W
H111158	RS140-1C32T	Q	453.49	478	38	103	147	115	41.0	H112790	RS140-1C32TQ	1W
H111159	RS140-1C34T	Q	481.75	506	38	103	147	115	44.8	H112791	RS140-1C34TQ	1W
H111160	RS140-1C35T	Q	495.88	521	38	110	157	125	49.5	H112792	RS140-1C35TQ	1W
H111161	RS140-1C36T	Q	510.01	535	38	110	157	125	52.0	H112793	RS140-1C36TQ	1W
H111162	RS140-1C38T	Q	538.27	563	38	110	157	125	56.3	H112794	RS140-1C38TQ	1W
H111163	RS140-1C40T	Q	566.54	591	38	118	167	130	61.1	H112795	RS140-1C40TQ	1W
H111164	RS140-1C42T	Q	594.81	620	38	118	167	130	66.3	H112796	RS140-1C42TQ	1W
H111165	RS140-1C45T	Q	637.22	662	38	118	167	130	76.0	H112797	RS140-1C45TQ	1W
H111166	RS140-1C48T	Q	679.63	705	38	118	167	130	83.7	H112798	RS140-1C48TQ	1W
H111167	RS140-1C50T	Q	707.91	733	38	118	167	130	89.8	H112799	RS140-1C50TQ	1W
H111168	RS140-1C54T	Q	764.47	790	38	118	167	130	101.8	H112800	RS140-1C54TQ	1W
H111169	RS140-1C60T	Q	849.32	875	38	118	167	155	125.2	H112801	RS140-1C60TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

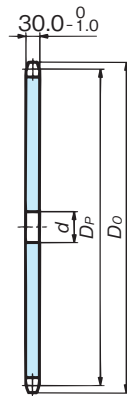
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

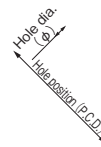
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS160 1A Type



Hanging hole size (No. of teeth: 23T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
23	40	261	36	40	471
24	40	277	38	40	503
25	40	293	40	40	535
26	40	309	42	40	568
27	40	326	45	40	616
28	40	342	48	40	665
30	40	374	50	40	697
32	40	406	54	40	762
34	40	438	60	40	859
35	40	455			

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS160 1A Type

● RS160 1A Type Strong (with Hardened Teeth)

Model No. : RS160-1A□□T No. of teeth			Common dimensions				Model No. : RS160-1A□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_0)	Pilot bore diameter d	Approx. mass (kg)	Product code	Model number	Time for delivery
H111170	RS160-1A10T	2W	164.39	187	33	4.6	H112802	RS160-1A10TQ	2W
H111171	RS160-1A11T	2W	180.31	204	33	5.5	H112803	RS160-1A11TQ	2W
H111172	RS160-1A12T	2W	196.28	220	33	6.6	H112804	RS160-1A12TQ	2W
H111173	RS160-1A13T	2W	212.27	237	33	7.7	H112805	RS160-1A13TQ	2W
H111174	RS160-1A14T	2W	228.29	253	33	8.9	H112806	RS160-1A14TQ	2W
H111175	RS160-1A15T	2W	244.33	269	33	10.3	H112807	RS160-1A15TQ	2W
H111176	RS160-1A16T	2W	260.39	286	33	11.7	H112808	RS160-1A16TQ	2W
H111177	RS160-1A17T	2W	276.46	302	33	13.2	H112809	RS160-1A17TQ	2W
H111178	RS160-1A18T	2W	292.55	319	33	14.8	H112810	RS160-1A18TQ	2W
H111179	RS160-1A19T	2W	308.64	335	33	16.5	H112811	RS160-1A19TQ	2W
H111180	RS160-1A20T	2W	324.74	351	33	18.2	H112812	RS160-1A20TQ	2W
H111181	RS160-1A21T	2W	340.84	368	33	20.1	H112813	RS160-1A21TQ	2W
H111182	RS160-1A22T	Q	356.96	384	38	22.6	H112814	RS160-1A22TQ	1W
H111183	RS160-1A23T	Q	373.07	400	38	25.0	H112815	RS160-1A23TQ	1W
H111184	RS160-1A24T	Q	389.19	416	38	27.0	H112816	RS160-1A24TQ	1W
H111185	RS160-1A25T	Q	405.32	433	38	29.3	H112817	RS160-1A25TQ	1W
H111186	RS160-1A26T	Q	421.45	449	38	31.7	H112818	RS160-1A26TQ	1W
H111187	RS160-1A27T	Q	437.58	465	38	34.4	H112819	RS160-1A27TQ	1W
H111188	RS160-1A28T	Q	453.72	481	38	37.1	H112820	RS160-1A28TQ	1W
H111189	RS160-1A30T	Q	485.99	514	38	42.2	H112821	RS160-1A30TQ	1W
H111190	RS160-1A32T	Q	518.28	546	38	48.4	H112822	RS160-1A32TQ	1W
H111191	RS160-1A34T	Q	550.57	579	38	54.7	H112823	RS160-1A34TQ	1W
H111192	RS160-1A35T	Q	566.72	595	38	57.2	H112824	RS160-1A35TQ	1W
H111193	RS160-1A36T	Q	582.86	611	38	61.3	H112825	RS160-1A36TQ	1W
H111194	RS160-1A38T	Q	615.17	644	38	68.3	H112826	RS160-1A38TQ	1W
H111195	RS160-1A40T	Q	647.47	676	38	75.2	H112827	RS160-1A40TQ	1W
H111196	RS160-1A42T	Q	679.78	708	38	83.5	H112828	RS160-1A42TQ	1W
H111197	RS160-1A45T	Q	728.25	757	38	95.2	H112829	RS160-1A45TQ	1W
H111198	RS160-1A48T	Q	776.72	806	38	108.3	H112830	RS160-1A48TQ	1W
H111199	RS160-1A50T	Q	809.04	838	38	118.4	H112831	RS160-1A50TQ	1W
H111200	RS160-1A54T	Q	873.68	903	38	138.1	H112832	RS160-1A54TQ	1W
H111201	RS160-1A60T	Q	970.65	1000	38	169.4	H112833	RS160-1A60TQ	1W
Carbon steel for machine structural use			Material				Carbon steel for machine structural use		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

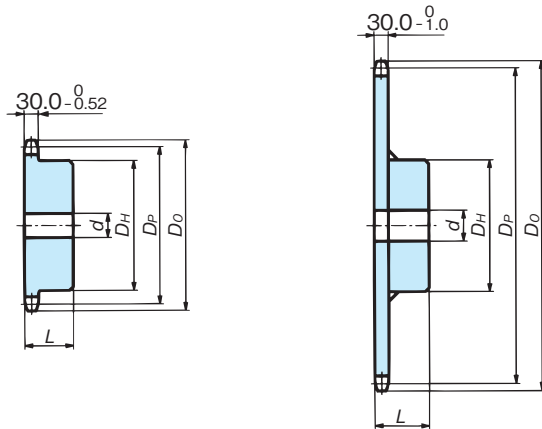
The models in the shaded part are products with hardened teeth.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS160 1B Type

Machining specifications (No. of teeth: 21T and under) Welding specifications (No. of teeth: 22T and over)



Hanging hole size (No. of teeth: 23T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
23	40	261	36	40	471
24	40	277	38	40	503
25	40	293	40	40	535
26	40	309	42	40	568
27	40	326	45	40	616
28	40	342	48	40	665
30	40	374	50	40	697
32	40	406	54	40	762
34	40	438	60	40	859
35	40	455			

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS160 1B Type

● RS160 1B Type Strong (with Hardened Teeth)

Model No. : RS160-1B□□T No. of teeth			Common dimensions							Model No. : RS160-1B□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)	Product code	Model number	Time for delivery
H111202	RS160-1B10T	◎	164.39	187	33	70	105	63	6.8			
H111203	RS160-1B11T	◎	180.31	204	33	80	117	63	8.3			
H111204	RS160-1B12T	◎	196.28	220	33	89	127	63	9.9	The 1B-type models in the shaded part of the table are products with hardened teeth.		
H111205	RS160-1B13T	◎	212.27	237	33	95	137	71	12.5			
H111206	RS160-1B14T	◎	228.29	253	33	95	137	71	13.8			
H111207	RS160-1B15T	◎	244.33	269	33	95	137	71	15.2			
H111208	RS160-1B16T	◎	260.39	286	33	103	147	71	17.4			
H111209	RS160-1B17T	◎	276.46	302	33	103	147	71	18.9			
H111210	RS160-1B18T	◎	292.55	319	33	103	147	71	20.6			
H111211	RS160-1B19T	◎	308.64	335	33	103	147	71	22.3			
H111212	RS160-1B20T	◎	324.74	351	33	103	147	71	24.2			
H111213	RS160-1B21T	◎	340.84	368	33	103	147	71	26.1			
H111214	RS160-1B22T	◎	356.96	384	38	118	167	80	30.2	H112834	RS160-1B22TQ	1W
H111215	RS160-1B23T	Q	373.07	400	38	118	167	80	33.2	H112835	RS160-1B23TQ	1W
H111216	RS160-1B24T	◎	389.19	416	38	118	167	80	34.4	H112836	RS160-1B24TQ	1W
H111217	RS160-1B25T	◎	405.32	433	38	118	167	80	36.6	H112837	RS160-1B25TQ	1W
H111218	RS160-1B26T	◎	421.45	449	38	118	167	80	38.9	H112838	RS160-1B26TQ	1W
H111219	RS160-1B27T	Q	437.58	465	38	118	167	80	42.7	H112839	RS160-1B27TQ	1W
H111220	RS160-1B28T	Q	453.72	481	38	118	167	80	45.3	H112840	RS160-1B28TQ	1W
H111221	RS160-1B30T	◎	485.99	514	38	118	167	100	52.3	H112841	RS160-1B30TQ	1W
H111222	RS160-1B32T	Q	518.28	546	38	118	167	100	59.9	H112842	RS160-1B32TQ	1W
H111223	RS160-1B34T	Q	550.57	579	38	118	167	100	66.2	H112843	RS160-1B34TQ	1W
H111224	RS160-1B35T	◎	566.72	595	38	118	167	100	68.0	H112844	RS160-1B35TQ	1W
H111225	RS160-1B36T	Q	582.86	611	38	118	167	100	71.8	H112845	RS160-1B36TQ	1W
H111226	RS160-1B38T	Q	615.17	644	38	118	167	100	78.7	H112846	RS160-1B38TQ	1W
H111227	RS160-1B40T	Q	647.47	676	38	132	187	121	93.4	H112847	RS160-1B40TQ	1W
H111228	RS160-1B42T	Q	679.78	708	38	132	187	121	101.0	H112848	RS160-1B42TQ	1W
H111229	RS160-1B45T	Q	728.25	757	38	132	187	121	113.2	H112849	RS160-1B45TQ	1W
H111230	RS160-1B48T	Q	776.72	806	38	132	187	121	126.3	H112850	RS160-1B48TQ	1W
H111231	RS160-1B50T	Q	809.04	838	38	132	187	121	135.4	H112851	RS160-1B50TQ	1W
H111232	RS160-1B54T	Q	873.68	903	38	132	187	121	154.9	H112852	RS160-1B54TQ	1W
H111233	RS160-1B60T	Q	970.65	1000	38	132	187	121	186.8	H112853	RS160-1B60TQ	1W
21T and under:Carbon steel for machine structural use, Solid type 22T and over:Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

The 1B-type models in the shaded part of the table are products with hardened teeth.

Consult your TSUBAKI representative for the numbers of teeth other than the above.

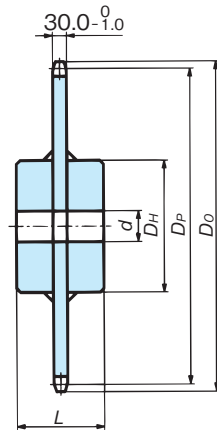
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
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The models in the shaded part are products with hardened teeth.

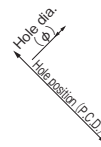
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS160 1C Type



Hanging hole size (No. of teeth: 23T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
23	40	261	36	40	471
24	40	277	38	40	503
25	40	293	40	40	535
26	40	309	42	40	568
27	40	326	45	40	616
28	40	342	48	40	665
30	40	374	50	40	697
32	40	406	54	40	762
34	40	438	60	40	859
35	40	455			

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS160 1C Type

● RS160 1C Type Strong (with Hardened Teeth)

Model No. : RS160-1C□□T No. of teeth			Common dimensions							Model No. : RS160-1C□□TQ No. of teeth		
Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d' Pilot bore	Max.	Hub Diameter D_H	Length L	Approx. mass (kg)	Product code	Model number	Time for delivery
H111234	RS160-1C22T	Q	356.96	384	38	118	167	125	37.8	H112854	RS160-1C22TQ	1W
H111235	RS160-1C23T	Q	373.07	400	38	118	167	125	40.6	H112855	RS160-1C23TQ	1W
H111236	RS160-1C24T	Q	389.19	416	38	118	167	125	42.2	H112856	RS160-1C24TQ	1W
H111237	RS160-1C25T	Q	405.32	433	38	118	167	125	44.5	H112857	RS160-1C25TQ	1W
H111238	RS160-1C26T	Q	421.45	449	38	118	167	125	46.9	H112858	RS160-1C26TQ	1W
H111239	RS160-1C27T	Q	437.58	465	38	118	167	125	50.0	H112859	RS160-1C27TQ	1W
H111240	RS160-1C28T	Q	453.72	481	38	118	167	125	52.6	H112860	RS160-1C28TQ	1W
H111241	RS160-1C30T	Q	485.99	514	38	118	167	125	57.5	H112861	RS160-1C30TQ	1W
H111242	RS160-1C32T	Q	518.28	546	38	118	167	125	64.0	H112862	RS160-1C32TQ	1W
H111243	RS160-1C34T	Q	550.57	579	38	118	167	125	70.3	H112863	RS160-1C34TQ	1W
H111244	RS160-1C35T	Q	566.72	595	38	118	167	135	74.8	H112864	RS160-1C35TQ	1W
H111245	RS160-1C36T	Q	582.86	611	38	118	167	135	78.5	H112865	RS160-1C36TQ	1W
H111246	RS160-1C38T	Q	615.17	644	38	118	167	135	85.6	H112866	RS160-1C38TQ	1W
H111247	RS160-1C40T	Q	647.47	676	38	132	187	150	94.8	H112867	RS160-1C40TQ	1W
H111248	RS160-1C42T	Q	679.78	708	38	132	187	150	103.2	H112868	RS160-1C42TQ	1W
H111249	RS160-1C45T	Q	728.25	757	38	132	187	150	120.3	H112869	RS160-1C45TQ	1W
H111250	RS160-1C48T	Q	776.72	806	38	132	187	150	133.5	H112870	RS160-1C48TQ	1W
H111251	RS160-1C50T	Q	809.04	838	38	132	187	150	143.3	H112871	RS160-1C50TQ	1W
H111252	RS160-1C54T	Q	873.68	903	38	132	187	150	163.0	H112872	RS160-1C54TQ	1W
H111253	RS160-1C60T	Q	970.65	1000	38	132	187	160	196.6	H112873	RS160-1C60TQ	1W
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type			Material and specifications							Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type		

Consult your TSUBAKI representative for the numbers of teeth other than the above.

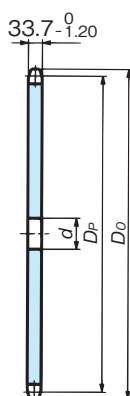
(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

The models in the shaded part are products with hardened teeth.

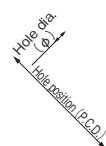
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS180 1A Type



Hanging hole size (No. of teeth: 22T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
22	40	276	35	40	512
23	40	294	36	40	531
24	40	313	38	40	567
25	40	331	40	40	603
26	40	349	42	40	640
27	40	367	45	40	694
28	40	385	48	40	749
30	40	422	50	40	785
32	40	458	54	40	858
34	40	464	60	40	967

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS180 1A Type

Model No. : **RS180-1A□□T**
No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)
H11	RS180-1A11T	3W	202.85	229	43	7.8
H11	RS180-1A12T	3W	220.81	248	43	9.3
H11	RS180-1A13T	3W	238.81	266	43	10.9
H11	RS180-1A14T	3W	256.83	285	43	12.6
H11	RS180-1A15T	3W	274.87	303	43	14.5
H11	RS180-1A16T	3W	292.94	322	43	16.5
H11	RS180-1A17T	3W	311.02	340	43	18.7
H11	RS180-1A18T	3W	329.12	358	43	21.5
H11	RS180-1A19T	3W	347.21	377	43	23.9
H11	RS180-1A20T	3W	365.33	395	43	26.6
H11	RS180-1A21T	3W	383.45	413	63	28.9
H11	RS180-1A22T	3W	401.57	432	63	31.7
H11	RS180-1A23T	3W	419.70	450	63	35.0
H11	RS180-1A24T	3W	437.84	468	63	37.9
H11	RS180-1A25T	3W	455.99	487	63	41.2
H11	RS180-1A26T	3W	474.13	505	63	44.6
H11	RS180-1A27T	3W	492.28	523	63	48.5
H11	RS180-1A28T	3W	510.43	542	63	52.2
H11	RS180-1A30T	3W	546.74	578	63	59.6
H11	RS180-1A32T	3W	583.06	615	63	68.4
H11	RS180-1A34T	3W	619.39	651	63	77.2
H11	RS180-1A35T	4W	637.55	669	63	81.3
H11	RS180-1A36T	4W	655.72	688	63	86.7
H11	RS180-1A38T	4W	692.06	724	63	96.6
H11	RS180-1A40T	4W	728.41	760	63	106.4
H11	RS180-1A42T	4W	764.75	797	63	118.2
H11	RS180-1A45T	4W	819.28	852	63	134.8
H11	RS180-1A48T	4W	873.81	906	63	153.5
H11	RS180-1A50T	4W	910.17	943	63	167.7
H11	RS180-1A54T	4W	982.89	1016	63	195.7
H11	RS180-1A60T	4W	1091.98	1125	63	240.2

Material and specification

Carbon steel for machine structural use, Solid type

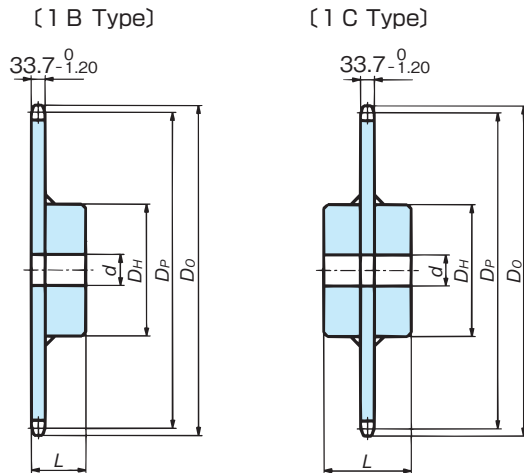
Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS180 1B·1C Type



Hanging hole size (No. of teeth: 22T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
22	40	276	35	40	512
23	40	294	36	40	531
24	40	313	38	40	567
25	40	331	40	40	603
26	40	349	42	40	640
27	40	367	45	40	694
28	40	385	48	40	749
30	40	422	50	40	785
32	40	458	54	40	858
34	40	464	60	40	967

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS180 1B Type

● RS180 1C Type

Model No. : RS180-1B□□T No. of teeth								Common dimensions		Model No. : RS180-1C□□T No. of teeth							
Product code	Model number	Time for delivery	Bore diameter <i>d</i>		Hub		Approx. mass (kg)	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Product code	Model number	Time for delivery	Bore diameter <i>d</i>		Hub		Approx. mass (kg)
			Pilot bore	Max.	Diameter <i>D_H</i>	Length <i>L</i>							Pilot bore	Max.	Diameter <i>D_H</i>	Length <i>L</i>	
H11	RS180-1B11T	4W	43	75	110	55	9.3	202.85	229								
H11	RS180-1B12T	4W	43	85	130	65	12.6	220.81	248								
H11	RS180-1B13T	4W	43	95	150	75	16.6	238.81	266								
H11	RS180-1B14T	4W	43	105	170	80	20.9	256.83	285								
H11	RS180-1B15T	4W	43	110	180	80	23.8	274.87	303								
H11	RS180-1B16T	4W	43	110	180	80	25.9	292.94	322								
H11	RS180-1B17T	4W	43	115	180	80	28.1	311.02	340								
H11	RS180-1B18T	4W	43	115	180	80	29.9	329.12	358								
H11	RS180-1B19T	4W	43	115	180	80	32.4	347.21	377								
H11	RS180-1B20T	4W	43	115	180	80	35.0	365.33	395								
								383.45	413	H11	RS180-1C21T	4W	63	120	190	85	38.8
								401.57	432	H11	RS180-1C22T	4W	63	120	190	85	41.7
								419.70	450	H11	RS180-1C23T	4W	63	120	200	90	47.8
								437.84	468	H11	RS180-1C24T	4W	63	125	200	90	50.2
								455.99	487	H11	RS180-1C25T	4W	63	125	200	90	53.5
								474.13	505	H11	RS180-1C26T	4W	63	125	200	90	56.8
								492.28	523	H11	RS180-1C27T	4W	63	125	200	90	61.3
								510.43	542	H11	RS180-1C28T	4W	63	125	200	90	65.0
								546.74	578	H11	RS180-1C30T	4W	63	135	220	110	81.1
								583.06	615	H11	RS180-1C32T	4W	63	135	220	110	89.6
								619.39	651	H11	RS180-1C34T	4W	63	135	220	110	98.5
								637.55	669	H11	RS180-1C35T	4W	63	135	220	110	102.9
								655.72	688	H11	RS180-1C36T	4W	63	135	220	110	108.0
								692.06	724	H11	RS180-1C38T	4W	63	135	220	110	118.0
								728.41	760	H11	RS180-1C40T	4W	63	150	240	125	137.5
								764.75	797	H11	RS180-1C42T	4W	63	150	240	125	148.9
								819.28	852	H11	RS180-1C45T	4W	63	150	240	125	166.1
								873.81	906	H11	RS180-1C48T	4W	63	150	240	125	184.9
								910.17	943	H11	RS180-1C50T	4W	63	150	240	125	198.6
								982.89	1016	H11	RS180-1C54T	4W	63	150	240	125	226.7
								1091.98	1125	H11	RS180-1C60T	4W	63	150	240	125	272.2
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type								Material and specifications		38T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type 40T and over: Carbon steel for machine structural use (teeth) Carbon steel for machine structural use (hub) Welding type							

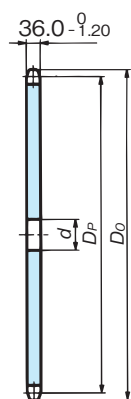
Consult your TSUBAKI representative for the numbers of teeth other than the above.

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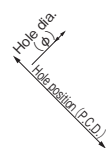
Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS200 1A Type



Hanging hole size (No. of teeth: 21T to 60T)



No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
21	40	291	35	40	573
22	40	311	36	40	593
23	40	331	38	40	634
24	40	351	40	40	674
25	40	371	42	40	715
26	40	392	45	40	775
27	40	412	48	40	836
28	40	432	50	40	876
30	40	472	54	40	957
32	40	513	60	40	1078
34	40	553			

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS200 1A Type

Model No. : **RS200-1A□□T**

No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)
H11	RS200-1A11T	3W	225.39	254	43	10.4
H11	RS200-1A12T	3W	245.34	275	43	12.3
H11	RS200-1A13T	3W	265.34	296	43	14.5
H11	RS200-1A14T	3W	285.37	316	43	16.8
H11	RS200-1A15T	3W	305.42	337	43	19.3
H11	RS200-1A16T	3W	325.49	357	43	22.5
H11	RS200-1A17T	3W	345.58	378	43	25.4
H11	RS200-1A18T	3W	365.68	398	43	28.5
H11	RS200-1A19T	3W	385.79	419	63	31.3
H11	RS200-1A20T	3W	405.92	439	63	34.7
H11	RS200-1A21T	3W	426.05	459	63	38.3
H11	RS200-1A22T	3W	446.20	480	63	42.1
H11	RS200-1A23T	3W	466.34	500	63	46.5
H11	RS200-1A24T	3W	486.49	520	63	50.3
H11	RS200-1A25T	3W	506.65	541	63	54.6
H11	RS200-1A26T	3W	526.81	561	63	59.1
H11	RS200-1A27T	3W	546.98	581	63	64.3
H11	RS200-1A28T	3W	567.14	602	63	69.1
H11	RS200-1A30T	4W	607.49	642	63	78.9
H11	RS200-1A32T	4W	647.85	683	63	90.5
H11	RS200-1A34T	4W	688.21	723	63	102.2
H11	RS200-1A35T	4W	708.39	744	63	107.6
H11	RS200-1A36T	4W	728.58	764	63	114.7
H11	RS200-1A38T	4W	768.96	804	63	127.8
H11	RS200-1A40T	4W	809.34	845	63	140.7
H11	RS200-1A42T	4W	849.73	885	63	156.3
H11	RS200-1A45T	4W	910.31	946	63	178.3
H11	RS200-1A48T	4W	970.90	1007	68	202.8
H11	RS200-1A50T	4W	1011.30	1047	68	221.6
H11	RS200-1A54T	4W	1092.10	1128	68	258.6
H11	RS200-1A60T	4W	1213.31	1250	68	317.3

Material

Carbon steel for machine structural use

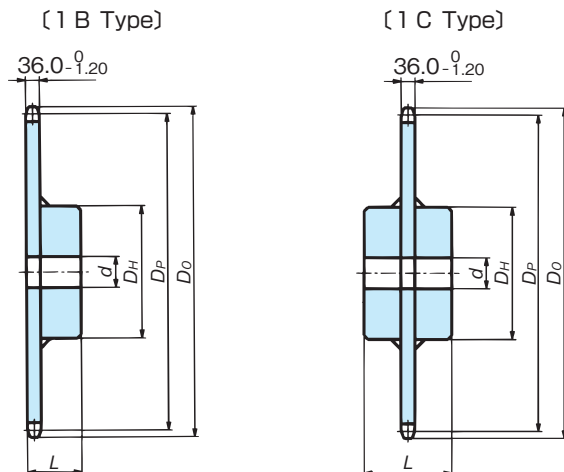
Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS200 1B·1C Type



Hanging hole size (No. of teeth: 21T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
21	40	291	35	40	573
22	40	311	36	40	593
23	40	331	38	40	634
24	40	351	40	40	674
25	40	371	42	40	715
26	40	392	45	40	775
27	40	412	48	40	836
28	40	432	50	40	876
30	40	472	54	40	957
32	40	513	60	40	1078
34	40	553			

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS200 1B Type

● RS200 1C Type

Model No. : RS200-1B□□T No. of teeth									Model No. : RS200-1C□□T No. of teeth								
Product code	Model number	Time for delivery	Bore diameter d		Hub		Approx. mass (kg)	Pitch circle diameter DP	(Outer diameter) (DO)	Product code	Model number	Time for delivery	Bore diameter d		Hub		Approx. mass (kg)
			Pilot bore	Max.	Diameter DH	Length L							Pilot bore	Max.	Diameter DH	Length L	
H11	RS200-1B11T	4W	43	80	130	65	13.4	225.39	254								
H11	RS200-1B12T	4W	43	90	150	75	17.8	245.34	275								
H11	RS200-1B13T	4W	43	100	170	80	22.4	265.34	296								
H11	RS200-1B14T	4W	43	110	180	80	25.7	285.37	316								
H11	RS200-1B15T	4W	43	115	180	80	28.3	305.42	337								
H11	RS200-1B16T	4W	43	115	180	80	30.3	325.49	357								
H11	RS200-1B17T	4W	43	120	190	85	35.3	345.58	378								
H11	RS200-1B18T	4W	43	120	190	85	38.4	365.68	398								
								385.79	419	H11	RS200-1C19T	4W	63	125	200	90	42.9
								405.92	439	H11	RS200-1C20T	4W	63	125	200	90	46.4
								426.05	459	H11	RS200-1C21T	4W	63	135	220	110	59.1
								446.20	480	H11	RS200-1C22T	4W	63	135	220	110	62.2
								466.34	500	H11	RS200-1C23T	4W	63	140	230	110	69.0
								486.49	520	H11	RS200-1C24T	4W	63	140	230	110	73.1
								506.65	541	H11	RS200-1C25T	4W	63	140	230	110	77.5
								526.81	561	H11	RS200-1C26T	4W	63	140	230	110	82.0
								546.98	581	H11	RS200-1C27T	4W	63	140	230	110	86.8
								567.14	602	H11	RS200-1C28T	4W	63	140	230	110	91.7
								607.49	642	H11	RS200-1C30T	4W	63	150	240	125	109.1
								647.85	683	H11	RS200-1C32T	4W	63	150	240	125	120.1
								688.21	723	H11	RS200-1C34T	4W	63	150	240	125	131.9
								708.39	744	H11	RS200-1C35T	4W	63	150	240	125	138.0
								728.58	764	H11	RS200-1C36T	4W	63	150	240	125	144.3
								768.96	804	H11	RS200-1C38T	4W	63	150	240	125	157.5
								809.34	845	H11	RS200-1C40T	4W	63	170	270	140	186.1
								849.73	885	H11	RS200-1C42T	4W	63	170	270	140	200.8
								910.31	946	H11	RS200-1C45T	4W	63	170	270	140	223.9
								970.90	1007	H11	RS200-1C48T	4W	68	170	270	140	248.2
								1011.30	1047	H11	RS200-1C50T	4W	68	170	270	140	265.7
								1092.10	1128	H11	RS200-1C54T	4W	68	170	270	140	302.6
								1213.31	1250	H11	RS200-1C60T	4W	68	170	270	140	363.2
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type									Material and specifications								
									22T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type								
									23T and over: Carbon steel for machine structural use (teeth) Carbon steel for machine structural use (hub) Welding type								

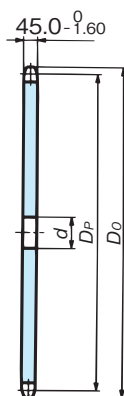
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS240 1A Type



Hanging hole size (No. of teeth: 20T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
20	45	355	34	45	681
21	45	378	35	45	704
22	45	401	36	45	726
23	45	424	38	45	773
24	45	447	40	45	821
25	45	470	42	45	867
26	45	494	45	45	938
27	45	517	48	45	1009
28	45	540	50	45	1054
30	45	587	54	45	1148
32	45	635	60	45	1291

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS240 1A Type

Model No. : RS240-1A□□T

No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_p	(Outer diameter) (D_o)	Pilot bore diameter d	Approx. mass (kg)
H11	RS240-1A11T	3W	270.47	305	43	18.9
H11	RS240-1A12T	3W	294.41	330	43	22.5
H11	RS240-1A13T	3W	318.41	355	43	26.8
H11	RS240-1A14T	3W	342.44	380	43	31.1
H11	RS240-1A15T	3W	366.50	404	63	35.2
H11	RS240-1A16T	3W	390.59	429	63	40.1
H11	RS240-1A17T	3W	414.70	453	63	45.3
H11	RS240-1A18T	3W	438.82	478	63	50.9
H11	RS240-1A19T	3W	462.95	502	63	56.8
H11	RS240-1A20T	3W	487.11	527	63	63.0
H11	RS240-1A21T	3W	511.26	551	63	69.5
H11	RS240-1A22T	3W	535.43	576	63	76.3
H11	RS240-1A23T	3W	559.61	600	63	84.1
H11	RS240-1A24T	3W	583.79	625	63	91.0
H11	RS240-1A25T	4W	607.98	649	63	98.7
H11	RS240-1A26T	4W	632.17	673	63	106.8
H11	RS240-1A27T	4W	656.37	698	63	116.1
H11	RS240-1A28T	4W	680.57	722	63	124.9
H11	RS240-1A30T	4W	728.99	771	63	142.4
H11	RS240-1A32T	4W	777.42	819	63	163.2
H11	RS240-1A34T	4W	825.86	868	63	184.4
H11	RS240-1A35T	4W	850.07	892	63	194.1
H11	RS240-1A36T	4W	874.30	917	63	206.8
H11	RS240-1A38T	4W	922.75	965	63	230.4
H11	RS240-1A40T	4W	971.21	1014	68	253.5
H11	RS240-1A42T	4W	1019.67	1063	68	281.4
H11	RS240-1A45T	4W	1092.37	1135	68	321.1
H11	RS240-1A48T	4W	1165.08	1208	68	365.4
H11	RS240-1A50T	4W	1213.56	1257	68	399.2
H11	RS240-1A54T	4W	1310.52	1354	68	465.7
H11	RS240-1A60T	4W	1455.98	1500	68	571.4

Material

Carbon steel for machine structural use

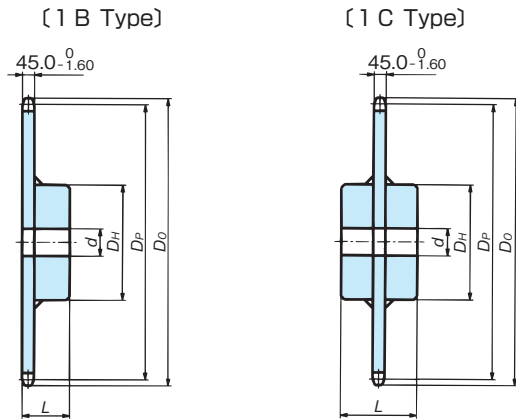
Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
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Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS240 1B·1C Type



Hanging hole size (No. of teeth: 20T to 60T)

No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)	No. of teeth	Hole dia. (φ)	Hole position (P.C.D.)
20	45	355	34	45	681
21	45	378	35	45	704
22	45	401	36	45	726
23	45	424	38	45	773
24	45	447	40	45	821
25	45	470	42	45	867
26	45	494	45	45	938
27	45	517	48	45	1009
28	45	540	50	45	1054
30	45	587	54	45	1148
32	45	635	60	45	1291

The illustration may vary in the phase relationship between the actual hanging hole and teeth.

● RS240 1B Type

● RS240 1C Type

Model No. : RS240-1B□□T No. of teeth								Common dimensions		Model No. : RS240-1C□□T No. of teeth							
Product code	Model number	Time for delivery	Bore diameter d		Hub		Approx. mass (kg)	Pitch circle diameter D _P	(Outer diameter) (D _O)	Product code	Model number	Time for delivery	Bore diameter d		Hub		Approx. mass (kg)
			Pilot bore	Max.	Diameter D _H	Length L							Pilot bore	Max.	Diameter D _H	Length L	
H11	RS240-1B11T	4W	43	90	150	75	23.4	270.47	305								
H11	RS240-1B12T	4W	43	100	170	85	29.9	294.41	330								
H11	RS240-1B13T	4W	43	120	200	100	39.2	318.41	355								
H11	RS240-1B14T	4W	43	130	210	110	47.4	342.44	380								
								366.50	404	H11	RS240-1C15T	4W	63	140	230	110	54.2
								390.59	429	H11	RS240-1C16T	4W	63	140	230	110	59.1
								414.70	453	H11	RS240-1C17T	4W	63	145	230	110	64.4
								438.82	478	H11	RS240-1C18T	4W	63	145	230	110	71.1
								462.95	502	H11	RS240-1C19T	4W	63	150	240	120	82.2
								487.11	527	H11	RS240-1C20T	4W	63	150	240	120	88.5
								511.26	551	H11	RS240-1C21T	4W	63	155	240	120	95.0
								535.43	576	H11	RS240-1C22T	4W	63	155	240	120	101.9
								559.61	600	H11	RS240-1C23T	4W	63	160	260	140	121.7
								583.79	625	H11	RS240-1C24T	4W	63	160	260	140	129.2
								607.98	649	H11	RS240-1C25T	4W	63	160	260	140	137.0
								632.17	673	H11	RS240-1C26T	4W	63	160	260	140	145.2
								656.37	698	H11	RS240-1C27T	4W	63	160	260	140	153.7
								680.57	722	H11	RS240-1C28T	4W	63	160	260	140	162.5
								728.99	771	H11	RS240-1C30T	4W	63	165	260	140	181.0
								777.42	819	H11	RS240-1C32T	4W	63	165	260	140	200.9
								825.86	868	H11	RS240-1C34T	4W	63	165	260	140	222.0
								850.07	892	H11	RS240-1C35T	4W	63	165	260	140	233.0
								874.30	917	H11	RS240-1C36T	4W	63	165	260	140	244.4
								922.75	965	H11	RS240-1C38T	4W	63	165	260	140	268.1
								971.21	1014	H11	RS240-1C40T	4W	68	170	270	140	295.5
								1019.67	1063	H11	RS240-1C42T	4W	68	170	270	140	321.8
								1092.37	1135	H11	RS240-1C45T	4W	68	170	270	140	363.5
								1165.08	1208	H11	RS240-1C48T	4W	68	170	270	140	408.1
								1213.56	1257	H11	RS240-1C50T	4W	68	170	270	140	439.5
								1310.52	1354	H11	RS240-1C54T	4W	68	170	270	140	506.1
								1455.98	1500	H11	RS240-1C60T	4W	68	170	270	140	615.4
Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type								Material and specifications		14T and under: Carbon steel for machine structural use (teeth) Rolled steel for general structure (hub) Welding type 15T and over: Carbon steel for machine structural use (teeth) Carbon steel for machine structural use (hub) Welding type							

Consult your TSUBAKI representative for the numbers of teeth other than the above.

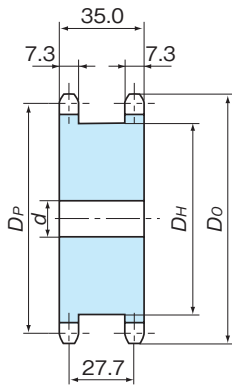
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The figure before the letter W indicates the number of weeks required for production.

Note 1: The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

Note 2: The teeth part of each sprocket with its approximate mass value shown in bold characters is provided a hanging hole. See the illustration above for the dimensions of the hanging hole.

RS40 SD Type

Applicable chain pitch: 12.70 mm Roller dia.: 7.92 mm



● RS40 SD Type

All models are products with hardened teeth.

Model No. : **RS40-SD-□□T**

No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)
					Pilot bore	Max.	Diameter D_H	Length L	
H113001	RS40-SD-12T	◎	49.07	55	9.5	19	34	35	0.34
H113002	RS40-SD-13T	◎	53.07	59	12.7	22	38	35	0.40
H113003	RS40-SD-14T	◎	57.07	93	12.7	24	42	35	0.48
H113004	RS40-SD-15T	◎	61.08	67	12.7	27	46	35	0.56
H113005	RS40-SD-16T	◎	65.10	71	12.7	31	50	35	0.66
H113006	RS40-SD-17T	◎	69.12	76	12.7	34	54	35	0.76
H113007	RS40-SD-18T	◎	73.14	80	12.7	38	59	35	0.88
H113008	RS40-SD-19T	◎	77.16	84	12.7	41	63	35	0.99
H113009	RS40-SD-20T	◎	81.18	88	12.7	44	67	35	1.12
H113010	RS40-SD-21T	◎	85.21	92	12.7	47	71	35	1.24
H113011	RS40-SD-22T	◎	89.24	96	12.7	50	75	35	1.38
H113012	RS40-SD-23T	◎	93.27	100	12.7	51	78	35	1.50
H113013	RS40-SD-24T	◎	97.30	104	12.7	55	83	35	1.67
H113014	RS40-SD-25T	◎	101.33	108	12.7	58	87	35	1.83

Material and specifications

Carbon steel for machine structural use, Solid type

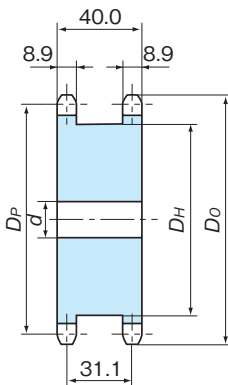
Consult your TSUBAKI representative for the numbers of teeth other than the above.

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The figure before the letter W indicates the number of weeks required for production.

Note : The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS50 SD Type

Applicable chain pitch: 15.875 mm Roller dia.: 10.16 mm



● RS50 SD Type

All models are products with hardened teeth.

Model No. : **RS50-SD-□□T**

No. of teeth

Product code	Model number	Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)
					Pilot bore	Max.	Diameter D_H	Length L	
H113015	RS50-SD-12T	◎	61.34	69	12.7	25	43	40	0.62
H113016	RS50-SD-13T	◎	66.33	74	12.7	29	48	40	0.75
H113017	RS50-SD-14T	◎	71.34	79	12.7	33	53	40	0.90
H113018	RS50-SD-15T	◎	76.35	84	12.7	37	58	40	1.05
H113019	RS50-SD-16T	◎	81.37	89	12.7	41	63	40	1.22
H113020	RS50-SD-17T	◎	86.39	94	12.7	44	68	40	1.40
H113021	RS50-SD-18T	◎	91.42	100	12.7	48	73	40	1.60
H113022	RS50-SD-19T	◎	96.45	105	15.9	52	79	40	1.80
H113023	RS50-SD-20T	◎	101.48	110	15.9	56	84	40	2.02
H113024	RS50-SD-21T	◎	106.51	115	15.9	60	89	40	2.25
H113025	RS50-SD-22T	◎	111.55	120	15.9	62	92	40	2.44
H113026	RS50-SD-23T	◎	116.59	125	15.9	67	99	40	2.75
H113027	RS50-SD-24T	◎	121.62	130	15.9	70	102	40	2.96
H113028	RS50-SD-25T	◎	126.66	135	15.9	75	109	40	3.30

Material and specifications

Carbon steel for machine structural use, Solid type

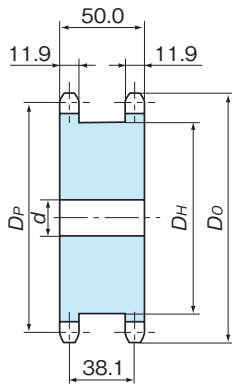
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note : The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS60 SD Type

Applicable chain pitch: 19.05 mm Roller dia.: 11.91 mm



● RS60 SD Type

All models are products with hardened teeth.

Model No. : **RS60-SD-□□T**

No. of teeth

Code		Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)
Product code	Model number				Pilot bore	Max.	Diameter D_H	Length L	
H113029	RS60-SD-12T	◎	73.60	83	12.7	31	51	50	1.16
H113030	RS60-SD-13T	◎	79.60	89	15.9	36	57	50	1.37
H113031	RS60-SD-14T	◎	85.61	95	15.9	42	64	50	1.65
H113032	RS60-SD-15T	◎	91.63	101	15.9	46	70	50	1.93
H113033	RS60-SD-16T	◎	97.65	107	15.9	50	76	50	2.24
H113034	RS60-SD-17T	◎	103.67	113	15.9	55	82	50	2.57
H113035	RS60-SD-18T	◎	109.70	119	15.9	59	88	50	2.92
H113036	RS60-SD-19T	◎	115.74	126	15.9	64	94	50	3.29
H113037	RS60-SD-20T	◎	121.78	132	15.9	68	100	50	3.69
H113038	RS60-SD-21T	◎	127.82	138	15.9	74	107	50	4.14
H113039	RS60-SD-22T	◎	133.86	144	15.9	78	113	50	4.58
H113040	RS60-SD-23T	◎	139.90	150	18	82	119	50	5.02
H113041	RS60-SD-24T	◎	145.95	156	18	87	125	50	5.51
H113042	RS60-SD-25T	◎	151.99	162	18	91	130	50	5.98

Material and specifications

Carbon steel for machine structural use, Solid type

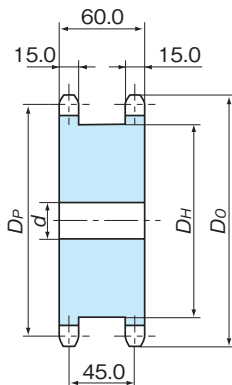
Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note : The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS80 SD Type

Applicable chain pitch: 25.40 mm Roller dia.: 15.88 mm



● RS80 SD Type

All models are products with hardened teeth.

Model No. : **RS80-SD-□□T**

No. of teeth

Code		Time for delivery	Pitch circle diameter D_P	(Outer diameter) (D_o)	Bore diameter d		Hub		Approx. mass (kg)
Product code	Model number				Pilot bore	Max.	Diameter D_H	Length L	
H113043	RS80-SD-12T	◎	98.14	110	20	45	69	60	2.5
H113044	RS80-SD-13T	◎	106.14	118	20	50	77	60	3.0
H113045	RS80-SD-14T	◎	114.15	127	20	55	85	60	3.6
H113046	RS80-SD-15T	◎	122.17	135	20	63	93	60	4.2
H113047	RS80-SD-16T	◎	130.20	143	20	70	102	60	4.9
H113048	RS80-SD-17T	◎	138.23	151	20	74	110	60	5.6
H113049	RS80-SD-18T	◎	146.27	159	20	80	118	60	6.4

Material and specifications

Carbon steel for machine structural use, Solid type

Consult your TSUBAKI representative for the numbers of teeth other than the above.

(Time for delivery) ◎ = In stock Q = Quick delivery (within a week) 1W = Production in 7 days 2W = Production in 14 days
The figure before the letter W indicates the number of weeks required for production.

Note : The diameter of the maximum bore of each product shown is a standard figure. Check and decide the bore diameter and key surface pressure of each model on the basis of standard machinery design.

RS Sprocket Fit Bore (with Finished Bore) Series



Applicable models: RS35 through RS100 of 1B Type
Each model is provided with a finished bore, keyway and two setscrews.
Used as it is without additional machining.

● Specifications

Hardened teeth All models are finished with high-frequency hardening.
Bore Bore diameters in high demand for motors and reducers are prepared and finished within H7 tolerances.
Keyway Finished with the tooth bottom reference based on Js9 (standard parallel key class) of JIS B1301-1976 (new JIS).
Consult your TSUBAKI representative if precise phase matching is required.
Setscrew All models are provided with two setscrews (on the keyway and 90° side or 120° side if the finished bore diameter exceeds 40 mm).

● Bore Tolerance

Applicable bore dia.	Tolerance (H7)
6 and up to 10	+0.015 0
More than 10 and up to 18	+0.018 0
More than 18 and up to 30	+0.021 0
More than 30 and up to 50	+0.025 0
More than 50 and up to 65	+0.030 0

● Keyway Dimensions and Setscrew Size

Applicable bore dia.	Keyway width	Tolerance (Js9)	Keyway depth	Tolerance	Setscrew size
10 and up to 12	4	±0.0150	1.8	+0.1 0	M4
More than 12 and up to 17	5		2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3	+0.2 0	M8
More than 30 and up to 38	10				
More than 38 and up to 44	12	±0.0215	3.8		M10
More than 44 and up to 50	14		4.3		
More than 50 and up to 58	16		4.4		
More than 58 and up to 65	18				

● Precautions

1. When using the setscrews, be sure to tighten the setscrews securely so that they will not be loosened. Remove the setscrews if they are not required.
2. Take appropriate measures, such as the use of a stopper plate, to prevent the sprocket from falling off the shaft.

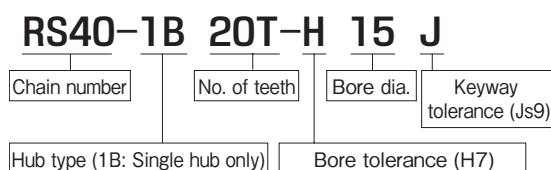
● Ordering Information on RS Sprocket Fit Bore ●

Place each order with the product code and model number.

● Order example

Product code	Model number	Quantity	Unit
H120381	RS40-1B20T-H15J	10	K (No. of units)

● Model No.

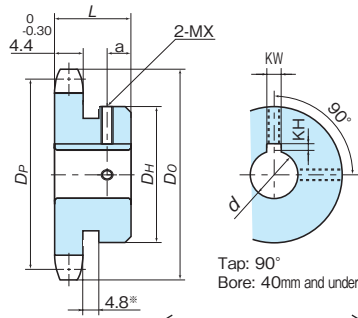


RS35 Fit Bore

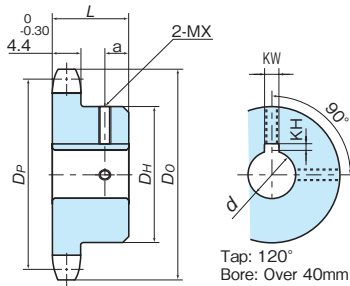
Applicable chain pitch: 9.525 mm Roller dia.: 5.08 mm

RS35 Fit Bore

Hub with groove
(No. of teeth: 9T to 13T)



Hub without groove
(No. of teeth: 14T and over)



No. of teeth : Hub dia. : Groove dia.
9T : ϕ 22 : ϕ 16
10T : ϕ 25 : ϕ 18
11T : ϕ 27 : ϕ 22
12T : ϕ 31 : ϕ 24
13T : ϕ 32 : ϕ 28

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	± 0.0150	2.3	$+0.1$ 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	± 0.0180	3.3		M8
More than 30 and up to 38	10		3.8	$+0.2$ 0	M10
More than 38 and up to 44	12	± 0.0215	4.3		M10
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.
RS35-1B 20T - H 15 J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
No. of teeth
Type
Chain no.

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

		Finished bore dia. <i>d</i>										Model number	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_o</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>	Tap position <i>a</i>
		10	12	14	15	16	17	18	19	20	22							
Product code (Combination of above bore dia.)																		
H12	0001											RS35-1B 9T-H ☐ J	9	27.85	32	22	20	5
H12	0002	0003										RS35-1B10T-H ☐ J	10	30.82	35	25	20	5
H12	0004	0005	0006									RS35-1B11T-H ☐ J	11	33.81	38	27	20	5
H12	0007	0008	0009	0010	0011							RS35-1B12T-H ☐ J	12	36.80	41	31	20	5
H12	0012	0013	0014	0015	0016	0017	0018					RS35-1B13T-H ☐ J	13	39.80	44	32	20	5
H12	0019	0020	0021	0022	0023							RS35-1B14T-H ☐ J	14	42.81	47	30	20	8
H12	0024	0025	0026	0027	0028	0029	0030	0031				RS35-1B15T-H ☐ J	15	45.81	51	35	20	8
H12	0032	0033	0034	0035	0036	0037	0038	0039	0040			RS35-1B16T-H ☐ J	16	48.82	54	37	20	8
H12		0041	0042	0043	0044	0045	0046	0047	0048	0049		RS35-1B17T-H ☐ J	17	51.84	57	41	20	8
H12		0051	0052	0053	0054	0055	0056	0057	0058	0059		RS35-1B18T-H ☐ J	18	54.85	60	44	20	8
H12		0061	0062	0063	0064	0065	0066	0067	0068	0069		RS35-1B19T-H ☐ J	19	57.87	63	47	20	8
H12		0073	0074	0075	0076	0077	0078	0079	0080	0081		RS35-1B20T-H ☐ J	20	60.89	66	50	20	8
H12		0086	0087	0088	0089	0090	0091	0092	0093	0094		RS35-1B21T-H ☐ J	21	63.91	69	53	20	8
H12		0100	0101	0102	0103	0104	0105	0106	0107	0108		RS35-1B22T-H ☐ J	22	66.93	72	53	20	8
H12		0114	0115	0116	0117	0118	0119	0120	0121	0122		RS35-1B23T-H ☐ J	23	69.95	75	53	20	8
H12		0128	0129	0130	0131	0132	0133	0134	0135	0136		RS35-1B24T-H ☐ J	24	72.97	78	53	22	10
H12				0142	0143	0144	0145	0146	0147	0148		RS35-1B25T-H ☐ J	25	76.00	81	53	22	10
H12				0154	0155	0156	0157	0158	0159	0160		RS35-1B26T-H ☐ J	26	79.02	84	53	22	10
H12				0166	0167	0168	0169	0170	0171	0172		RS35-1B27T-H ☐ J	27	82.05	87	53	22	10
H12				0178	0179	0180	0181	0182	0183	0184		RS35-1B28T-H ☐ J	28	85.07	90	53	22	10
H12				0190	0191	0192	0193	0194	0195	0196		RS35-1B30T-H ☐ J	30	91.12	96	53	22	10
H12				0202	0203	0204	0205	0206	0207	0208		RS35-1B32T-H ☐ J	32	97.18	102	53	22	10
H12				0214	0215	0216	0217	0218	0219	0220		RS35-1B34T-H ☐ J	34	103.23	109	53	22	10
H12				0226	0227	0228	0229	0230	0231	0232		RS35-1B35T-H ☐ J	35	106.26	112	53	22	10
H12				0238	0239	0240	0241	0242	0243	0244		RS35-1B36T-H ☐ J	36	109.29	115	53	22	10
H12									0250	0251		RS35-1B38T-H ☐ J	38	115.34	121	63	25	10
H12									0259	0260		RS35-1B40T-H ☐ J	40	121.40	127	63	25	10
		Finished bore dia. <i>d</i>										Model number	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_o</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>	Tap position <i>a</i>
		24	25	28	30	32	35	38										
Product code (Combination of above bore dia.)																		
H12	0050											RS35-1B17T-H ☐ J	17	51.84	57	41	20	8
H12	0060											RS35-1B18T-H ☐ J	18	54.85	60	44	20	8
H12	0070	0071		0072								RS35-1B19T-H ☐ J	19	57.87	63	47	20	8
H12	0082	0083	0084	0085								RS35-1B20T-H ☐ J	20	60.89	66	50	20	8
H12	0095	0096	0097	0098	0099							RS35-1B21T-H ☐ J	21	63.91	69	53	20	8
H12	0109	0110	0111	0112	0113							RS35-1B22T-H ☐ J	22	66.93	72	53	20	8
H12	0123	0124	0125	0126	0127							RS35-1B23T-H ☐ J	23	69.95	75	53	20	8
H12	0137	0138	0139	0140	0141							RS35-1B24T-H ☐ J	24	72.97	78	53	22	7
H12	0149	0150	0151	0152	0153							RS35-1B25T-H ☐ J	25	76.00	81	53	22	7
H12	0161	0162	0163	0164	0165							RS35-1B26T-H ☐ J	26	79.02	84	53	22	7
H12	0173	0174	0175	0176	0177							RS35-1B27T-H ☐ J	27	82.05	87	53	22	7
H12	0185	0186	0187	0188	0189							RS35-1B28T-H ☐ J	28	85.07	90	53	22	7
H12	0197	0198	0199	0200	0201							RS35-1B30T-H ☐ J	30	91.12	96	53	22	7
H12	0209	0210	0211	0212	0213							RS35-1B32T-H ☐ J	32	97.18	102	53	22	7
H12	0221	0222	0223	0224	0225							RS35-1B34T-H ☐ J	34	103.23	109	53	22	7
H12	0233	0234	0235	0236	0237							RS35-1B35T-H ☐ J	35	106.26	112	53	22	7
H12	0245	0246	0247	0248	0249							RS35-1B36T-H ☐ J	36	109.29	115	53	22	7
H12	0252	0253	0254	0255	0256		0257	0258				RS35-1B38T-H ☐ J	38	115.34	121	63	25	10
H12	0261	0262	0263	0264	0265		0266	0267				RS35-1B40T-H ☐ J	40	121.40	127	63	25	10

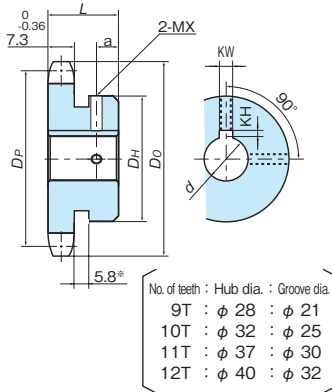
<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

RS40 Fit Bore

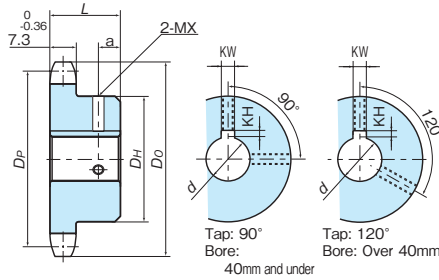
Applicable chain pitch: 12.70 mm Roller dia.: 7.92 mm

RS40 Fit Bore

Hub with groove
(No. of teeth: 9T to 12T)



Hub without groove
(No. of teeth: 13T and over)



Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M10
More than 38 and up to 44	12	±0.0215	4.3		
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.

RS40-1B 20T - H 15 J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
No. of teeth
Type
Chain no.

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

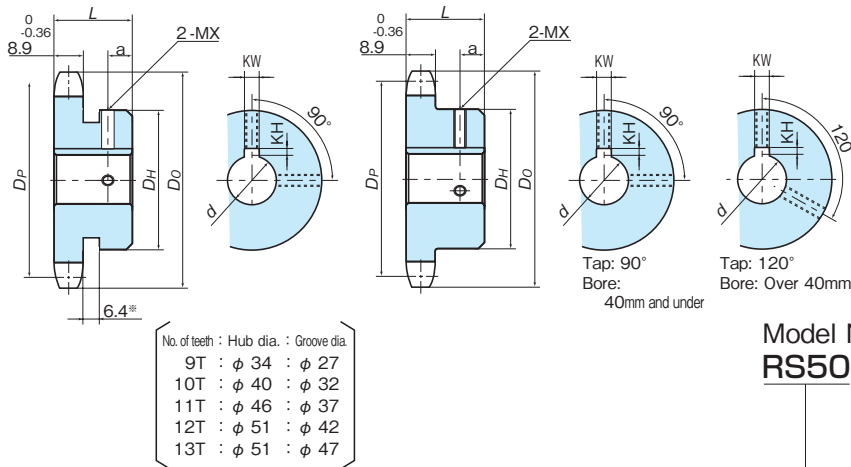
		Finished bore dia. <i>d</i>										Model number	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>	Tap position <i>a</i>
		10	12	14	15	16	17	18	19	20	22							
Product code (Combination of above bore dia.)																		
H12	0268	0269	0270	0271								RS40-1B 9T-H □□ J	9	37.13	43	28	22	5
H12	0272	0273	0274	0275	0276							RS40-1B10T-H □□ J	10	41.10	47	32	22	5
H12	0277	0278	0279	0280	0281	0282	0283	0284	0285			RS40-1B11T-H □□ J	11	45.08	51	37	22	5
H12	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295		RS40-1B12T-H □□ J	12	49.07	55	40	22	5
H12		0296	0297	0298	0299	0300	0301	0302	0303			RS40-1B13T-H □□ J	13	53.07	59	37	22	7
H12		0304	0305	0306	0307	0308	0309	0310	0311	0312		RS40-1B14T-H □□ J	14	57.07	63	42	22	7
H12		0314	0315	0316	0317	0318	0319	0320	0321	0322		RS40-1B15T-H □□ J	15	61.08	67	46	22	7
H12			0326	0327	0328	0329	0330	0331	0332	0333		RS40-1B16T-H □□ J	16	65.10	71	50	22	7
H12			0338	0339	0340	0341	0342	0343	0344	0345		RS40-1B17T-H □□ J	17	69.12	76	54	22	7
H12			0351	0352	0353	0354	0355	0356	0357	0358		RS40-1B18T-H □□ J	18	73.14	80	57	22	7
H12			0365	0366	0367	0368	0369	0370	0371	0372		RS40-1B19T-H □□ J	19	77.16	84	62	22	7
H12			0380	0381	0382	0383	0384	0385	0386	0387		RS40-1B20T-H □□ J	20	81.18	88	67	25	7
H12			0398	0399	0400	0401	0402	0403	0404	0405		RS40-1B21T-H □□ J	21	85.21	92	71	25	7
H12			0416	0417	0418	0419	0420	0421	0422	0423		RS40-1B22T-H □□ J	22	89.24	96	75	25	7
H12			0434	0435	0436	0437	0438	0439	0440	0441		RS40-1B23T-H □□ J	23	93.27	100	77	25	7
H12			0452	0453	0454	0455	0456	0457	0458	0459		RS40-1B24T-H □□ J	24	97.30	104	63	25	7
H12			0469	0470	0471	0472	0473	0474	0475	0476		RS40-1B25T-H □□ J	25	101.33	108	63	25	7
H12			0486	0487	0488	0489	0490	0491	0492	0493		RS40-1B26T-H □□ J	26	105.36	112	63	25	7
H12			0503	0504	0505	0506	0507	0508	0509	0510		RS40-1B27T-H □□ J	27	109.40	116	63	25	7
H12			0520	0521	0522	0523	0524	0525	0526	0527		RS40-1B28T-H □□ J	28	113.43	120	63	25	7
H12			0537	0538	0539	0540	0541	0542	0543	0544		RS40-1B30T-H □□ J	30	121.50	128	63	25	7
H12										0554	0555	RS40-1B32T-H □□ J	32	129.57	137	68	28	8
H12										0563	0564	RS40-1B34T-H □□ J	34	137.64	145	68	28	8
H12										0572	0573	RS40-1B35T-H □□ J	35	141.68	149	68	28	8
H12										0581	0582	RS40-1B36T-H □□ J	36	145.72	153	68	28	8
		Finished bore dia. <i>d</i>										Model number	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>	Tap position <i>a</i>
		24	25	28	30	32	35	38	40	42	45							
Product code (Combination of above bore dia.)																		
H12	0313											RS40-1B14T-H □□ J	14	57.07	63	42	22	7
H12	0323	0324	0325									RS40-1B15T-H □□ J	15	61.08	67	46	22	7
H12	0334	0335	0336	0337								RS40-1B16T-H □□ J	16	65.10	71	50	22	7
H12	0346	0347	0348	0349	0350							RS40-1B17T-H □□ J	17	69.12	76	54	22	7
H12	0359	0360	0361	0362	0363	0364						RS40-1B18T-H □□ J	18	73.14	80	57	22	7
H12	0373	0374	0375	0376	0377	0378	0379					RS40-1B19T-H □□ J	19	77.16	84	62	22	7
H12	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397		RS40-1B20T-H □□ J	20	81.18	88	67	25	7
H12	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415		RS40-1B21T-H □□ J	21	85.21	92	71	25	7
H12	0424	0425	0426	0427	0428	0429	0430	0431	0432	0433		RS40-1B22T-H □□ J	22	89.24	96	75	25	7
H12	0442	0443	0444	0445	0446	0447	0448	0449	0450	0451		RS40-1B23T-H □□ J	23	93.27	100	77	25	7
H12	0460	0461	0462	0463	0464	0465	0466	0467	0468			RS40-1B24T-H □□ J	24	97.30	104	63	25	7
H12	0477	0478	0479	0480	0481	0482	0483	0484	0485			RS40-1B25T-H □□ J	25	101.33	108	63	25	7
H12	0494	0495	0496	0497	0498	0499	0500	0501	0502			RS40-1B26T-H □□ J	26	105.36	112	63	25	7
H12	0511	0512	0513	0514	0515	0516	0517	0518	0519			RS40-1B27T-H □□ J	27	109.40	116	63	25	7
H12	0528	0529	0530	0531	0532	0533	0534	0535	0536			RS40-1B28T-H □□ J	28	113.43	120	63	25	7
H12	0545	0546	0547	0548	0549	0550	0551	0552	0553			RS40-1B30T-H □□ J	30	121.50	128	63	25	7
H12	0556	0557	0558	0559	0560	0561		0562				RS40-1B32T-H □□ J	32	129.57	137	68	28	8
H12	0565	0566	0567	0568	0569	0570		0571				RS40-1B34T-H □□ J	34	137.64	145	68	28	8
H12	0574	0575	0576	0577	0578	0579		0580				RS40-1B35T-H □□ J	35	141.68	149	68	28	8
H12	0583	0584	0585	0586	0587	0588		0589				RS40-1B36T-H □□ J	36	145.72	153	68	28	8
H12	0590	0591	0592	0593	0594	0595		0596				RS40-1B38T-H □□ J	38	153.79	161	68	28	8
H12		0597	0598	0599	0600	0601		0602				RS40-1B40T-H □□ J	40	161.87	169	68	28	8

<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

RS50 Fit Bore

Hub with groove
(No. of teeth: 9T to 13T)

Hub without groove
(No. of teeth: 14T and over)



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8	+0.1 0	M4
More than 12 and up to 17	5	± 0.0150	2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	± 0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M10
More than 38 and up to 44	12	± 0.0215	4.3		
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.
RS50-1B 20T - H 15 J

Keyway tolerance (Js9)
 Bore dia.
 Bore tolerance (H7)
 No. of teeth
 Type
 Chain no.

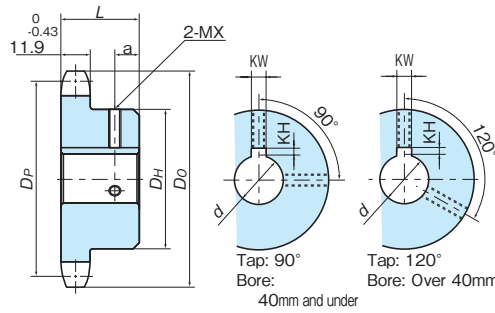
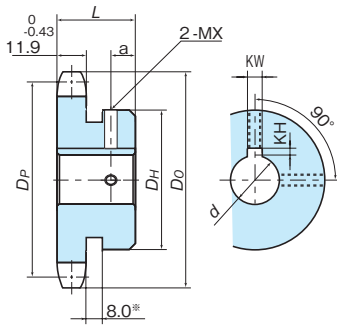
Finished bore dia. d										Model number	No. of teeth	Pitch circle diameter D_p	(Outer diameter) (D_o)	Hub diameter D_h	Hub length L	Tap position a
14	15	16	17	18	19	20	22	24								
Product code (Combination of above bore dia.)																
H12		0603	0604	0605	0606					RS50-1B 9T-H ☐ ☐ J	9	46.42	53	34	25	6
H12		0607	0608	0609	0610	0612	0613			RS50-1B10T-H ☐ ☐ J	10	51.37	58	40	25	6
H12		0614	0615	0616	0617	0618	0619	0620	0621	RS50-1B11T-H ☐ ☐ J	11	56.35	64	46	25	6
H12		0623	0624	0625	0626	0627	0628	0629	0630	RS50-1B12T-H ☐ ☐ J	12	61.34	69	51	25	6
H12	0635	0636	0637	0638	0639	0640	0641	0642	0643	RS50-1B13T-H ☐ ☐ J	13	66.33	74	51	25	6
H12	0648	0649	0650	0651	0652	0653	0654	0655	0656	RS50-1B14T-H ☐ ☐ J	14	71.34	79	52	25	7
H12	0661	0662	0663	0664	0665	0666	0667	0668	0669	RS50-1B15T-H ☐ ☐ J	15	76.35	84	57	25	7
H12	0675	0676	0677	0678	0679	0680	0681	0682	0683	RS50-1B16T-H ☐ ☐ J	16	81.37	89	62	25	7
H12	0691	0692	0693	0694	0695	0696	0697	0698	0699	RS50-1B17T-H ☐ ☐ J	17	86.39	94	67	25	7
H12	0709	0710	0711	0712	0713	0714	0715	0716	0717	RS50-1B18T-H ☐ ☐ J	18	91.42	100	72	28	8
H12	0727	0728	0729	0730	0731	0732	0733	0734	0735	RS50-1B19T-H ☐ ☐ J	19	96.45	105	73	28	8
H12	0745	0746	0747	0748	0749	0750	0751	0752	0753	RS50-1B20T-H ☐ ☐ J	20	101.48	110	73	28	8
H12				0763	0764	0765	0766	0767	0768	RS50-1B21T-H ☐ ☐ J	21	106.51	115	73	28	8
H12				0778	0779	0780	0781	0782	0783	RS50-1B22T-H ☐ ☐ J	22	111.55	120	73	28	8
H12				0793	0794	0795	0796	0797	0798	RS50-1B23T-H ☐ ☐ J	23	116.59	125	73	28	8
H12				0808	0809	0810	0811	0812	0813	RS50-1B24T-H ☐ ☐ J	24	121.62	130	73	28	8
H12				0823	0824	0825	0826	0827	0828	RS50-1B25T-H ☐ ☐ J	25	126.66	135	73	28	8
Finished bore dia. d										Model number	No. of teeth	Pitch circle diameter D_p	(Outer diameter) (D_o)	Hub diameter D_h	Hub length L	Tap position a
25	28	30	32	35	38	40	42	45								
Product code (Combination of above bore dia.)																
H12	0622									RS50-1B11T-H ☐ ☐ J	11	56.35	64	46	25	6
H12	0631	0632	0633	0634						RS50-1B12T-H ☐ ☐ J	12	61.34	69	51	25	6
H12	0644	0645	0646	0647						RS50-1B13T-H ☐ ☐ J	13	66.33	74	51	25	6
H12	0657	0658	0659	0660						RS50-1B14T-H ☐ ☐ J	14	71.34	79	52	25	7
H12	0670	0671	0672	0673	0674					RS50-1B15T-H ☐ ☐ J	15	76.35	84	57	25	7
H12	0684	0685	0686	0687	0688	0689	0690			RS50-1B16T-H ☐ ☐ J	16	81.37	89	62	25	7
H12	0700	0701	0702	0703	0704	0705	0706	0707	0708	RS50-1B17T-H ☐ ☐ J	17	86.39	94	67	25	7
H12	0718	0719	0720	0721	0722	0723	0724	0725	0726	RS50-1B18T-H ☐ ☐ J	18	91.42	100	72	28	8
H12	0736	0737	0738	0739	0740	0741	0742	0743	0744	RS50-1B19T-H ☐ ☐ J	19	96.45	105	73	28	8
H12	0754	0755	0756	0757	0758	0759	0760	0761	0762	RS50-1B20T-H ☐ ☐ J	20	101.48	110	73	28	8
H12	0769	0770	0771	0772	0773	0774	0775	0776	0777	RS50-1B21T-H ☐ ☐ J	21	106.51	115	73	28	8
H12	0784	0785	0786	0787	0788	0789	0790	0791	0792	RS50-1B22T-H ☐ ☐ J	22	111.55	120	73	28	8
H12	0799	0800	0801	0802	0803	0804	0805	0806	0807	RS50-1B23T-H ☐ ☐ J	23	116.59	125	73	28	8
H12	0814	0815	0816	0817	0818	0819	0820	0821	0822	RS50-1B24T-H ☐ ☐ J	24	121.62	130	73	28	8
H12	0829	0830	0831	0832	0833	0834	0835	0836	0837	RS50-1B25T-H ☐ ☐ J	25	126.66	135	73	28	8
H12	0838	0839	0840	0841	0842	0843	0844		0845	RS50-1B26T-H ☐ ☐ J	26	131.70	140	73	28	8
H12	0846	0847	0848	0849	0850	0851	0852		0853	RS50-1B27T-H ☐ ☐ J	27	136.74	145	73	28	8
H12	0854	0855	0856	0857	0858	0859	0860		0861	RS50-1B28T-H ☐ ☐ J	28	141.79	150	73	28	8
H12	0862	0863	0864	0865	0866	0867	0868		0869	RS50-1B30T-H ☐ ☐ J	30	151.87	161	73	28	8
H12	0870	0871	0872	0873	0874	0875	0876		0877	RS50-1B32T-H ☐ ☐ J	32	161.96	171	73	28	8
H12	0878	0879	0880	0881	0882	0883	0884		0885	RS50-1B34T-H ☐ ☐ J	34	172.05	181	73	28	8
H12	0886	0887	0888	0889	0890	0891	0892		0893	RS50-1B35T-H ☐ ☐ J	35	177.10	186	73	28	8

<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

RS60 Fit Bore

Hub with groove
(No. of teeth: 9T to 11T)

Hub without groove
(No. of teeth: 12T and over)



No. of teeth : Hub dia. : Groove dia.
9T : ϕ 43 : ϕ 32
10T : ϕ 49 : ϕ 37
11T : ϕ 51 : ϕ 45

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8	+0.1 0	M4
More than 12 and up to 17	5	± 0.0150	2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	± 0.0180			
More than 30 and up to 38	10		3.3	+0.2 0	M8
More than 38 and up to 44	12	± 0.0215	3.8		
More than 44 and up to 50	14		4.3		M10
More than 50 and up to 58	16		4.4		
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.

RS60-1B 20T - H 19 J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
No. of teeth
Type
Chain no.

Finished bore dia. d								Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
19	20	22	24	25	28	30	32							
Product code (Combination of above bore dia.)														
H12		0894	0895	0896				RS60-1B 9T-H ☐ ☐ J	9	55.70	64	43	32	6
H12	0897	0898	0899	0900	0901	0902	0903	RS60-1B10T-H ☐ ☐ J	10	61.65	70	49	32	6
H12	0904	0905	0906	0907	0908	0909	0910	RS60-1B11T-H ☐ ☐ J	11	67.62	76	51	32	6
H12	0912	0913	0914	0915	0916	0917	0918	RS60-1B12T-H ☐ ☐ J	12	73.60	83	51	32	12
H12	0920	0921	0922	0923	0924	0925	0926	RS60-1B13T-H ☐ ☐ J	13	79.60	89	57	32	12
H12	0929	0930	0931	0932	0933	0934	0935	RS60-1B14T-H ☐ ☐ J	14	85.61	95	62	32	12
H12	0939	0940	0941	0942	0943	0944	0945	RS60-1B15T-H ☐ ☐ J	15	91.63	101	68	32	12
H12	0952	0953	0954	0955	0956	0957	0958	RS60-1B16T-H ☐ ☐ J	16	97.65	107	73	32	12
H12	0965	0966	0967	0968	0969	0970	0971	RS60-1B17T-H ☐ ☐ J	17	103.67	113	73	32	12
H12	0978	0979	0980	0981	0982	0983	0984	RS60-1B18T-H ☐ ☐ J	18	109.70	119	83	40	12
H12	0994	0995	0996	0997	0998	0999	1000	RS60-1B19T-H ☐ ☐ J	19	115.74	126	83	40	12
H12	1010	1011	1012	1013	1014	1015	1016	RS60-1B20T-H ☐ ☐ J	20	121.78	132	83	40	12
H12		1026	1027	1028	1029	1030	1031	RS60-1B21T-H ☐ ☐ J	21	127.82	138	83	40	12
H12		1041	1042	1043	1044	1045	1046	RS60-1B22T-H ☐ ☐ J	22	133.86	144	83	40	12
H12		1056	1057	1058	1059	1060	1061	RS60-1B23T-H ☐ ☐ J	23	139.90	150	83	40	12
H12		1070	1071	1072	1073	1074	1075	RS60-1B24T-H ☐ ☐ J	24	145.95	156	83	40	12
H12		1084	1085	1086	1087	1088	1089	RS60-1B25T-H ☐ ☐ J	25	151.99	162	83	40	12
H12		1098	1099	1100	1101	1102	1103	RS60-1B26T-H ☐ ☐ J	26	158.04	168	83	40	12
H12			1112	1113	1114	1115	1116	RS60-1B27T-H ☐ ☐ J	27	164.09	174	83	40	12
H12			1124	1125	1126	1127	1128	RS60-1B28T-H ☐ ☐ J	28	170.14	180	83	40	12
H12			1136	1137	1138	1139	1140	RS60-1B30T-H ☐ ☐ J	30	182.25	193	83	40	12
Finished bore dia. d								Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
35	38	40	42	45	48	50	55							
Product code (Combination of above bore dia.)														
H12	0928							RS60-1B13T-H ☐ ☐ J	13	79.60	89	57	32	12
H12	0937	0938						RS60-1B14T-H ☐ ☐ J	14	85.61	95	62	32	12
H12	0947	0948	0949	0950	0951			RS60-1B15T-H ☐ ☐ J	15	91.63	101	68	32	12
H12	0960	0961	0962	0963	0964			RS60-1B16T-H ☐ ☐ J	16	97.65	107	73	32	12
H12	0973	0974	0975	0976	0977			RS60-1B17T-H ☐ ☐ J	17	103.67	113	73	32	12
H12	0986	0987	0988	0989	0990	0991	0992	RS60-1B18T-H ☐ ☐ J	18	109.70	119	83	40	12
H12	1002	1003	1004	1005	1006	1007	1008	RS60-1B19T-H ☐ ☐ J	19	115.74	126	83	40	12
H12	1018	1019	1020	1021	1022	1023	1024	RS60-1B20T-H ☐ ☐ J	20	121.78	132	83	40	12
H12	1033	1034	1035	1036	1037	1038	1039	RS60-1B21T-H ☐ ☐ J	21	127.82	138	83	40	12
H12	1048	1049	1050	1051	1052	1053	1054	RS60-1B22T-H ☐ ☐ J	22	133.86	144	83	40	12
H12	1063	1064	1065	1066	1067		1068	RS60-1B23T-H ☐ ☐ J	23	139.90	150	83	40	12
H12	1077	1078	1079	1080	1081		1082	RS60-1B24T-H ☐ ☐ J	24	145.95	156	83	40	12
H12	1091	1092	1093	1094	1095		1096	RS60-1B25T-H ☐ ☐ J	25	151.99	162	83	40	12
H12	1105	1106	1107	1108	1109		1110	RS60-1B26T-H ☐ ☐ J	26	158.04	168	83	40	12
H12	1118	1119	1120	1121	1122		1123	RS60-1B27T-H ☐ ☐ J	27	164.09	174	83	40	12
H12	1130	1131	1132	1133	1134		1135	RS60-1B28T-H ☐ ☐ J	28	170.14	180	83	40	12
H12	1142	1143	1144	1145	1146		1147	RS60-1B30T-H ☐ ☐ J	30	182.25	193	83	40	12

<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

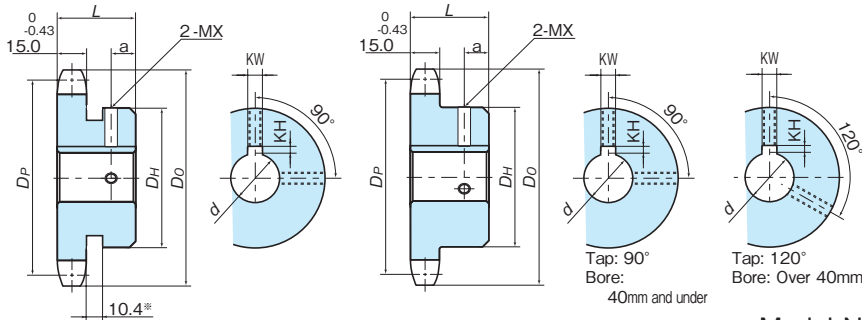
RS80 Fit Bore

Applicable chain pitch: 25.40 mm Roller dia.: 15.88 mm

RS80 Fit Bore

Hub with groove
(No. of teeth: 9T)

Hub without groove
(No. of teeth: 10T and over)



No. of teeth : Hub dia. : Groove dia.
9T : ϕ 58 : ϕ 44

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8	+0.1 0	M4
More than 12 and up to 17	5	± 0.0150	2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	± 0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M10
More than 38 and up to 44	12	± 0.0215	4.3		
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.

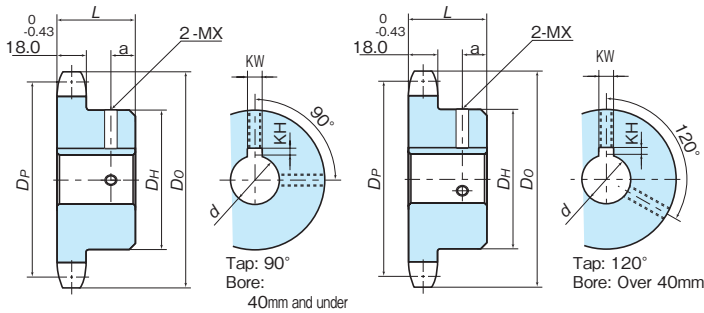
RS80-1B 20T - H 25 J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
No. of teeth
Type
Chain no.

Finished bore dia. d							Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
25	28	30	32	35	38								
Product code (Combination of above bore dia.)													
H12	1148	1149	1150	1151	1152		RS80-1B 9T-H ☐ ☐ J	9	74.26	85	58	40	8
H12	1153	1154	1155	1156			RS80-1B10T-H ☐ ☐ J	10	82.20	93	52	40	12
H12	1157	1158	1159	1160	1161	1162	RS80-1B11T-H ☐ ☐ J	11	90.16	102	60	40	12
H12	1163	1164	1165	1166	1167	1168	RS80-1B12T-H ☐ ☐ J	12	98.14	110	67	40	12
H12	1172	1173	1174	1175	1176	1177	RS80-1B13T-H ☐ ☐ J	13	106.14	118	77	40	12
H12	1183	1184	1185	1186	1187	1188	RS80-1B14T-H ☐ ☐ J	14	114.15	127	77	40	12
H12	1194	1195	1196	1197	1198	1199	RS80-1B15T-H ☐ ☐ J	15	122.17	135	93	40	12
H12	1207	1208	1209	1210	1211	1212	RS80-1B16T-H ☐ ☐ J	16	130.20	143	93	40	12
H12	1220	1221	1222	1223	1224	1225	RS80-1B17T-H ☐ ☐ J	17	138.23	151	93	40	12
H12	1233	1234	1235	1236	1237	1238	RS80-1B18T-H ☐ ☐ J	18	146.27	159	93	40	12
H12	1246	1247	1248	1249	1250	1251	RS80-1B19T-H ☐ ☐ J	19	154.32	167	93	40	12
H12	1259	1260	1261	1262	1263	1264	RS80-1B20T-H ☐ ☐ J	20	162.37	176	93	40	12
H12	1272	1273	1274	1275	1276	1277	RS80-1B21T-H ☐ ☐ J	21	170.42	184	93	40	12
Finished bore dia. d							Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
40	42	45	48	50	55	60							
Product code (Combination of above bore dia.)													
H12	1169	1170	1171				RS80-1B12T-H ☐ ☐ J	12	98.14	110	67	40	12
H12	1178	1179	1180	1181	1182		RS80-1B13T-H ☐ ☐ J	13	106.14	118	77	40	12
H12	1189	1190	1191	1192	1193		RS80-1B14T-H ☐ ☐ J	14	114.15	127	77	40	12
H12	1200	1201	1202	1203	1204	1205	RS80-1B15T-H ☐ ☐ J	15	122.17	135	93	40	12
H12	1213	1214	1215	1216	1217	1218	RS80-1B16T-H ☐ ☐ J	16	130.20	143	93	40	12
H12	1226	1227	1228	1229	1230	1231	RS80-1B17T-H ☐ ☐ J	17	138.23	151	93	40	12
H12	1239	1240	1241	1242	1243	1244	RS80-1B18T-H ☐ ☐ J	18	146.27	159	93	40	12
H12	1252	1253	1254	1255	1256	1257	RS80-1B19T-H ☐ ☐ J	19	154.32	167	93	40	12
H12	1265	1266	1267	1268	1269	1270	RS80-1B20T-H ☐ ☐ J	20	162.37	176	93	40	12
H12	1278	1279	1280	1281	1282	1283	RS80-1B21T-H ☐ ☐ J	21	170.42	184	93	40	12

<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

RS100 Fit Bore

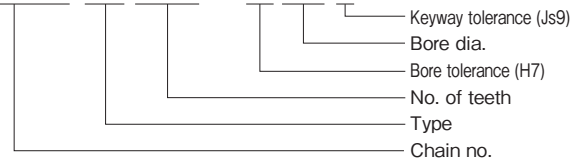


Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8	+0.1 0	M4
More than 12 and up to 17	5	±0.0150	2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M10
More than 38 and up to 44	12	±0.0215	4.3		
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Provided with two setscrews.

Model No.

RS100-1B 20T - H 38 J



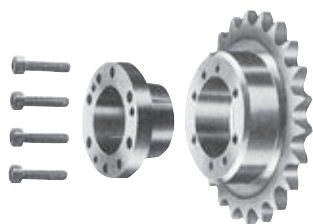
Finished bore dia. d							Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
25	28	30	32	35	38								
Product code (Combination of above bore dia.)													
H12	1285	1286	1287	1288	1289	1290	RS100-1B10T-H □□ J	10	102.75	117	65	50	15
H12	1293	1294	1295	1296	1297	1298	RS100-1B11T-H □□ J	11	112.70	127	75	50	15
H12	1304	1305	1306	1307	1308	1309	RS100-1B12T-H □□ J	12	122.67	138	86	50	15
H12	1316	1317	1318	1319	1320	1321	RS100-1B13T-H □□ J	13	132.67	148	88	50	15
H12	1328	1329	1330	1331	1332	1333	RS100-1B14T-H □□ J	14	142.68	158	88	50	15
H12				1340	1341	1342	RS100-1B15T-H □□ J	15	152.71	168	98	50	15
H12						1350	RS100-1B16T-H □□ J	16	162.75	179	98	50	15
H12						1355	RS100-1B17T-H □□ J	17	172.79	189	107	50	15
H12						1359	RS100-1B18T-H □□ J	18	182.84	199	107	50	15
H12						1363	RS100-1B19T-H □□ J	19	192.90	209	107	50	15
H12						1367	RS100-1B20T-H □□ J	20	202.96	220	107	50	15
Finished bore dia. d							Model number	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	Tap position a
40	42	45	48	50	55	60							
Product code (Combination of above bore dia.)													
H12	1291	1292					RS100-1B10T-H □□ J	10	102.75	117	65	50	15
H12	1299	1300	1301	1302	1303		RS100-1B11T-H □□ J	11	112.70	127	75	50	15
H12	1310	1311	1312	1313	1314	1315	RS100-1B12T-H □□ J	12	122.67	138	86	50	15
H12	1322	1323	1324	1325	1326	1327	RS100-1B13T-H □□ J	13	132.67	148	88	50	15
H12	1334	1335	1336	1337	1338	1339	RS100-1B14T-H □□ J	14	142.68	158	88	50	15
H12	1343	1344	1345	1346	1347	1348	RS100-1B15T-H □□ J	15	152.71	168	98	50	15
H12			1351		1352	1353	RS100-1B16T-H □□ J	16	162.75	179	98	50	15
H12			1356		1357		RS100-1B17T-H □□ J	17	172.79	189	107	50	15
H12			1360		1361		RS100-1B18T-H □□ J	18	182.84	199	107	50	15
H12			1364		1365		RS100-1B19T-H □□ J	19	192.90	209	107	50	15
H12			1368		1369		RS100-1B20T-H □□ J	20	202.96	220	107	50	15
H12			1371		1372		RS100-1B21T-H □□ J	21	213.03	230	107	50	15

<Time for delivery> Product codes in bold characters: In stock Product codes in normal characters: One day production

Lock Series (with Tightening Device) S Type

Applicable models: RS35 through RS100 of 1B Type
RS standard sprockets can be mounted to shafts without using keys.

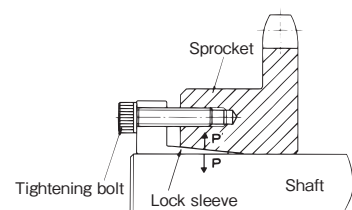
● Features



1. No wobbles after mounting (tightening).
2. Easy phase alignment.
3. Easy mounting and dismounting
4. No retainers required.

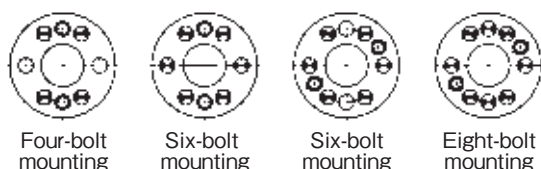
● Principle of Tightening

The inner diameter part of the sprocket and the outer diameter part of the lock sleeve are tapered. When the mounting bolts are tightened, the sprocket will slide and move on the tapered surface. At that time, a wedge action will generate force P and force P' in the radial direction to press the shaft and tapered inner side, and the frictional force will strongly secure the sprocket and shaft.



● Bolt Tightening Positions on Common Sleeve

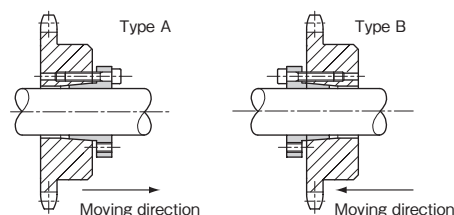
The sleeve is used in common. Therefore, set the mounting bolts to the following holes. The sprocket has screw holes available to four-bolt, six-bolt, or eight-bolt mounting so that the user will not make mistakes.



Set the mounting bolts to the screw holes marked with "⊕".

● Sprocket Moving Direction during Bolt Tightening

At the time of mounting the Lock-series S Type, the sprocket will move in the shaft direction for 0.5 to 1.0 mm between the moment the sprocket is secured initially and the moment the sprocket is tightened up. Therefore, take the moving distance into consideration when mounting the sprocket with centering adjustment. The moving distance of the sprocket varies with the type (See the illustration below).



● General Precautions

- 1) Permissible transmission torque
Make sure that the load torque does not exceed the specified transmission torque in the dimension table.
- 2) Shaft diameter tolerance and surface roughness
Use a shaft diameter tolerance of h8 and a surface roughness degree of 12S as standards.
- 3) Mounting to shafts provided with keyways or D-shaped shafts
The permissible transmission torque will decrease by 10% in the case of mounting the sprocket to a shaft provided with a finished keyway, such as a motor shaft, or D-shaped shaft.
- 4) Mounting to cold finished carbon steel bars.
The permissible transmission torque will decrease by 10% in the case of mounting the sprocket to a cold finished carbon steel bar (extraction material with a permissible diameter class 8 through 10).
- 5) Make sure that the shaft material is a solid shaft with a grade of S35C or higher.
- 6) Operating temperature range: -20°C to 200°C
- 7) Be sure to use a torque wrench to tighten each bolt. Do not tighten by hand or with an inaccurate method, such as the use of jointed pipes used, or otherwise the right transmission torque will not be obtained. Moreover, unexpected trouble may result. Be sure to use the torque wrench correctly by referring to the operation manual for the torque wrench.

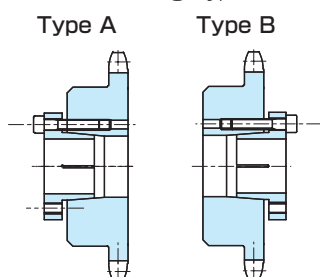
● Ordering Information on Lock S Type ●

Place each order with the product code and model number.

● Order example

Product code	Model number	Quantity	Unit
H110218	RS40-1B21T-S4825A	10	K(No. of units)

● Sleeve Mounting Type



*Note on sleeve mounting type

RS35-1B19T-S33 □□□

RS40-1B15T-S33 □□□

The above models are of type A only. Models of type B are not available due to the interference of the sprockets with chains.

● Model No.

RS40-1B21T-S4825A

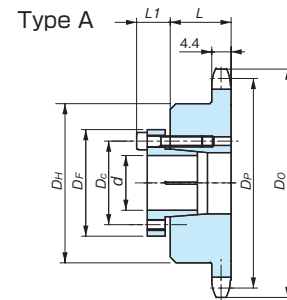
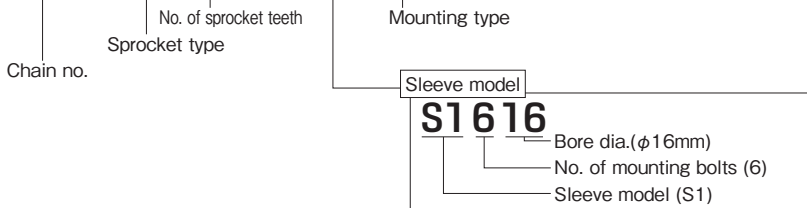
Chain number No. of teeth Mounting type
Hub type (1B: Single hub only)

Sleeve model
S4825
Sleeve model (S4) Bore dia. ($\phi 25\text{mm}$)
No. of mounting bolts (8)

RS35 Lock S Type (with Type-A Mounting)

Model No.

RS35-1B23T-S1616A



Order example

Example: RS35-1B, 15 teeth, mounting type A, and bore dia. 10 mm

Product code	Model number
H131001	RS35-1B15T-S1410A

S Type Lock Sleeve Dimensions

Sleeve no.	φ D _F (mm)	φ D _C (mm)	L ₁ (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 9.525 mm ● Roller dia.: 5.08 mm

All models are products with hardened teeth.

Applicable bore dia. d												Model number	Unit	No. of teeth	Pitch circle diameter D _P	(Outer diameter) (D _O)	Hub diameter D _H	Hub length L
10	11	12	14	15	16	17	18	19	20	22								
Product code (Combination of above bore dia.)												Model number	Unit	No. of teeth	Pitch circle diameter D _P	(Outer diameter) (D _O)	Hub diameter D _H	Hub length L
1001	1002	1003	1004	1005	1006													
H13	1001	1002	1003	1004	1005	1006						RS35-1B15T-S14 □ □ A	K	15	45.81	51	35	20
H13	1007	1008	1009	1010	1011	1012						RS35-1B16T-S14 □ □ A	K	16	48.82	54	37	20
H13	1013	1014	1015	1016	1017	1018						RS35-1B17T-S14 □ □ A	K	17	51.84	57	41	20
H13							1019	1020	1021	1022	1023	RS35-1B17T-S24 □ □ A	K	17	51.84	57	41	20
H13		1024	1025	1026	1027	1028						RS35-1B18T-S14 □ □ A	K	18	54.85	60	44	20
H13							1029	1030	1031	1032	1033	RS35-1B18T-S24 □ □ A	K	18	54.85	60	44	20
H13		1034	1035	1036	1037	1038						RS35-1B19T-S14 □ □ A	K	19	57.87	63	47	20
H13							1039	1040	1041	1042	1043	RS35-1B19T-S24 □ □ A	K	19	57.87	63	47	20
H13			1047	1048	1049	1050						RS35-1B20T-S14 □ □ A	K	20	60.89	66	50	20
H13							1051	1052	1053	1054	1055	RS35-1B20T-S24 □ □ A	K	20	60.89	66	50	20
H13				1059	1060	1061						RS35-1B21T-S16 □ □ A	K	21	63.91	69	53	20
H13							1062	1063	1064	1065	1066	RS35-1B21T-S24 □ □ A	K	21	63.91	69	53	20
H13				1070	1071	1072						RS35-1B22T-S16 □ □ A	K	22	66.93	72	53	20
H13							1073	1074	1075	1076	1077	RS35-1B22T-S24 □ □ A	K	22	66.93	72	53	20
H13				1084	1085	1086						RS35-1B23T-S16 □ □ A	K	23	69.95	75	53	20
H13							1087	1088	1089	1090	1091	RS35-1B23T-S24 □ □ A	K	23	69.95	75	53	20
H13				1098	1099	1100						RS35-1B24T-S16 □ □ A	K	24	72.97	78	53	20
H13							1101	1102	1103	1104	1105	RS35-1B24T-S24 □ □ A	K	24	72.97	78	53	20
H13				1112	1113	1114						RS35-1B25T-S16 □ □ A	K	25	76.00	81	53	20
H13							1115	1116	1117	1118	1119	RS35-1B25T-S24 □ □ A	K	25	76.00	81	53	20
H13				1126	1127	1128						RS35-1B26T-S16 □ □ A	K	26	79.02	84	53	22
H13							1129	1130	1131	1132	1133	RS35-1B26T-S24 □ □ A	K	26	79.02	84	53	22
H13				1140	1141	1142						RS35-1B27T-S16 □ □ A	K	27	82.05	87	53	22
H13							1143	1144	1145	1146	1147	RS35-1B27T-S24 □ □ A	K	27	82.05	87	53	22
H13				1154	1155	1156						RS35-1B28T-S16 □ □ A	K	28	85.07	90	53	22
H13							1157	1158	1159	1160	1161	RS35-1B28T-S24 □ □ A	K	28	85.07	90	53	22
H13				1168	1169	1170						RS35-1B30T-S16 □ □ A	K	30	91.12	96	53	22
H13							1171	1172	1173	1174	1175	RS35-1B30T-S24 □ □ A	K	30	91.12	96	53	22
H13				1182	1183	1184						RS35-1B32T-S16 □ □ A	K	32	97.18	102	53	22
H13							1185	1186	1187	1188	1189	RS35-1B32T-S24 □ □ A	K	32	97.18	102	53	22
H13				1196	1197	1198						RS35-1B34T-S16 □ □ A	K	34	103.23	109	53	22
H13							1199	1200	1201	1202	1203	RS35-1B34T-S24 □ □ A	K	34	103.23	109	53	22
H13				1210	1211	1212						RS35-1B35T-S16 □ □ A	K	35	106.26	112	53	22
H13							1213	1214	1215	1216	1217	RS35-1B35T-S24 □ □ A	K	35	106.26	112	53	22
H13				1224	1225	1226						RS35-1B36T-S16 □ □ A	K	36	109.29	115	53	22
H13							1227	1228	1229	1230	1231	RS35-1B36T-S24 □ □ A	K	36	109.29	115	53	22
H13				1238	1239	1240						RS35-1B38T-S16 □ □ A	K	38	115.34	121	63	25
H13							1241	1242	1243	1244	1245	RS35-1B38T-S24 □ □ A	K	38	115.34	121	63	25
H13				1252	1253	1254						RS35-1B40T-S16 □ □ A	K	40	121.40	127	63	25
H13							1255	1256	1257	1258	1259	RS35-1B40T-S24 □ □ A	K	40	121.40	127	63	25

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 9.525 mm ● Roller dia.: 5.08 mm

All models are products with hardened teeth.

	Applicable bore dia. <i>d</i>						Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	24	25	28	30	32	35							
Product code (Combination of above bore dia.)													
H13	1044	1045	1046				RS35-1B19T-S33 □□ A	K	19*	57.87	63	47	20
H13	1056	1057	1058				RS35-1B20T-S33 □□ A	K	20	60.89	66	50	20
H13	1067	1068	1069				RS35-1B21T-S34 □□ A	K	21	63.91	69	53	20
H13	1078	1079	1080	1081	1082	1083	RS35-1B22T-S44 □□ A	K	22	66.93	72	53	20
H13	1092	1093	1094	1095	1096	1097	RS35-1B23T-S44 □□ A	K	23	69.95	75	53	20
H13	1106	1107	1108	1109	1110	1111	RS35-1B24T-S44 □□ A	K	24	72.97	78	53	22
H13	1120	1121	1122	1123	1124	1125	RS35-1B25T-S44 □□ A	K	25	76.00	81	53	22
H13	1134	1135	1136	1137	1138	1139	RS35-1B26T-S44 □□ A	K	26	79.02	84	53	22
H13	1148	1149	1150	1151	1152	1153	RS35-1B27T-S44 □□ A	K	27	82.05	87	53	22
H13	1162	1163	1164	1165	1166	1167	RS35-1B28T-S44 □□ A	K	28	85.07	90	53	22
H13	1176	1177	1178	1179	1180	1181	RS35-1B30T-S44 □□ A	K	30	91.12	96	53	22
H13	1190	1191	1192	1193	1194	1195	RS35-1B32T-S44 □□ A	K	32	97.18	102	53	22
H13	1204	1205	1206	1207	1208	1209	RS35-1B34T-S44 □□ A	K	34	103.23	109	53	22
H13	1218	1219	1220	1221	1222	1223	RS35-1B35T-S44 □□ A	K	35	106.26	112	53	22
H13	1232	1233	1234	1235	1236	1237	RS35-1B36T-S44 □□ A	K	36	109.29	115	53	22
H13	1246	1247	1248	1249	1250	1251	RS35-1B38T-S44 □□ A	K	38	115.34	121	63	25
H13	1260	1261	1262	1263	1264	1265	RS35-1B40T-S44 □□ A	K	40	121.40	127	63	25

※ Only type A is available to asterisk-marked models. Type B is not available.

<Time for delivery> All products will be produced in three days.

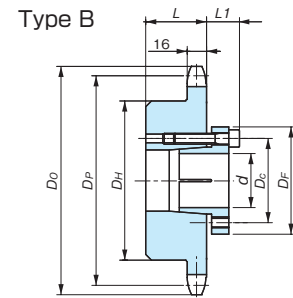
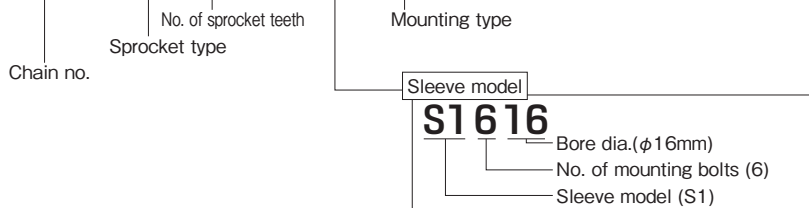
■ RS35 Lock (S Type) List of Permissible Transmission Torque Values (Unit: N · m)

No. of teeth \ Bore dia.	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
15T																	
16T																	
17T																	
18T																	
19T																	
20T							158	167	177	186	205	167	174	195			
21T												223	232	260			
22-40T				121	130	138									279	298	325

RS35 Lock S Type (with Type-B Mounting)

Model No.

RS35-1B23T-S1616B



Order example

Example: RS35-1B, 15 teeth, mounting type B, and bore dia. 10 mm

Product code	Model number
H132001	RS35-1B15T-S1410B

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 9.525 mm ● Roller dia.: 5.08 mm

All models are products with hardened teeth.

		Applicable bore dia. <i>d</i>										Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
		10	11	12	14	15	16	17	18	19	20							
Product code (Combination of above bore dia.)																		
H13	2001	2002	2003	2004	2005	2006						RS35-1B15T-S14 □□ B	K	15	45.81	51	35	20
H13	2007	2008	2009	2010	2011	2012						RS35-1B16T-S14 □□ B	K	16	48.82	54	37	20
H13	2013	2014	2015	2016	2017	2018						RS35-1B17T-S14 □□ B	K	17	51.84	57	41	20
H13							2019	2020	2021	2022	2023	RS35-1B17T-S24 □□ B	K					
H13		2024	2025	2026	2027	2028						RS35-1B18T-S14 □□ B	K	18	54.85	60	44	20
H13							2029	2030	2031	2032	2033	RS35-1B18T-S24 □□ B	K					
H13		2034	2035	2036	2037	2038						RS35-1B19T-S14 □□ B	K	19	57.87	63	47	20
H13							2039	2040	2041	2042	2043	RS35-1B19T-S24 □□ B	K					
H13			2047	2048	2049	2050						RS35-1B20T-S14 □□ B	K	20	60.89	66	50	20
H13							2051	2052	2053	2054	2055	RS35-1B20T-S24 □□ B	K					
H13				2059	2060	2061						RS35-1B21T-S16 □□ B	K	21	63.91	69	53	20
H13							2062	2063	2064	2065	2066	RS35-1B21T-S24 □□ B	K					
H13				2070	2071	2072						RS35-1B22T-S16 □□ B	K	22	66.93	72	53	20
H13							2073	2074	2075	2076	2077	RS35-1B22T-S24 □□ B	K					
H13				2084	2085	2086						RS35-1B23T-S16 □□ B	K	23	69.95	75	53	20
H13							2087	2088	2089	2090	2091	RS35-1B23T-S24 □□ B	K					
H13				2098	2099	2100						RS35-1B24T-S16 □□ B	K	24	72.97	78	53	20
H13							2101	2102	2103	2104	2105	RS35-1B24T-S24 □□ B	K					
H13				2112	2113	2114						RS35-1B25T-S16 □□ B	K	25	76.00	81	53	20
H13							2115	2116	2117	2118	2119	RS35-1B25T-S24 □□ B	K					
H13				2126	2127	2128						RS35-1B26T-S16 □□ B	K	26	79.02	84	53	22
H13							2129	2130	2131	2132	2133	RS35-1B26T-S24 □□ B	K					
H13				2140	2141	2142						RS35-1B27T-S16 □□ B	K	27	82.05	87	53	22
H13							2143	2144	2145	2146	2147	RS35-1B27T-S24 □□ B	K					
H13				2154	2155	2156						RS35-1B28T-S16 □□ B	K	28	85.07	90	53	22
H13							2157	2158	2159	2160	2161	RS35-1B28T-S24 □□ B	K					
H13				2168	2169	2170						RS35-1B30T-S16 □□ B	K	30	91.12	96	53	22
H13							2171	2172	2173	2174	2175	RS35-1B30T-S24 □□ B	K					
H13				2182	2183	2184						RS35-1B32T-S16 □□ B	K	32	97.18	102	53	22
H13							2185	2186	2187	2188	2189	RS35-1B32T-S24 □□ B	K					
H13				2196	2197	2198						RS35-1B34T-S16 □□ B	K	34	103.23	109	53	22
H13							2199	2200	2201	2202	2203	RS35-1B34T-S24 □□ B	K					
H13				2210	2211	2212						RS35-1B35T-S16 □□ B	K	35	106.26	112	53	22
H13							2213	2214	2215	2216	2217	RS35-1B35T-S24 □□ B	K					
H13				2224	2225	2226						RS35-1B36T-S16 □□ B	K	36	109.29	115	53	22
H13							2227	2228	2229	2230	2231	RS35-1B36T-S24 □□ B	K					
H13				2238	2239	2240						RS35-1B38T-S16 □□ B	K	38	115.34	121	63	25
H13							2241	2242	2243	2244	2245	RS35-1B38T-S24 □□ B	K					
H13				2252	2253	2254						RS35-1B40T-S16 □□ B	K	40	121.40	127	63	25
H13							2255	2256	2257	2258	2259	RS35-1B40T-S24 □□ B	K					

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 9.525 mm ● Roller dia.: 5.08 mm

All models are products with hardened teeth.

	Applicable bore dia. <i>d</i>						Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) <i>(D_O)</i>	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	24	25	28	30	32	35							
Product code (Combination of above bore dia.)													
H13	2056	2057	2058				RS35-1B20T-S33 □□ B	K	20	60.89	66	50	20
H13	2067	2068	2069				RS35-1B21T-S34 □□ B	K	21	63.91	69	53	20
H13	2078	2079	2080	2081	2082	2083	RS35-1B22T-S44 □□ B	K	22	66.93	72	53	20
H13	2092	2093	2094	2095	2096	2097	RS35-1B23T-S44 □□ B	K	23	69.95	75	53	20
H13	2106	2107	2108	2109	2110	2111	RS35-1B24T-S44 □□ B	K	24	72.97	78	53	22
H13	2120	2121	2122	2123	2124	2125	RS35-1B25T-S44 □□ B	K	25	76.00	81	53	22
H13	2134	2135	2136	2137	2138	2139	RS35-1B26T-S44 □□ B	K	26	79.02	84	53	22
H13	2148	2149	2150	2151	2152	2153	RS35-1B27T-S44 □□ B	K	27	82.05	87	53	22
H13	2162	2163	2164	2165	2166	2167	RS35-1B28T-S44 □□ B	K	28	85.07	90	53	22
H13	2176	2177	2178	2179	2180	2181	RS35-1B30T-S44 □□ B	K	30	91.12	96	53	22
H13	2190	2191	2192	2193	2194	2195	RS35-1B32T-S44 □□ B	K	32	97.18	102	53	22
H13	2204	2205	2206	2207	2208	2209	RS35-1B34T-S44 □□ B	K	34	103.23	109	53	22
H13	2218	2219	2220	2221	2222	2223	RS35-1B35T-S44 □□ B	K	35	106.26	112	53	22
H13	2232	2233	2234	2235	2236	2237	RS35-1B36T-S44 □□ B	K	36	109.29	115	53	22
H13	2246	2247	2248	2249	2250	2251	RS35-1B38T-S44 □□ B	K	38	115.34	121	63	25
H13	2260	2261	2262	2263	2264	2265	RS35-1B40T-S44 □□ B	K	40	121.40	127	63	25

<Time for delivery> All products will be produced in three days.

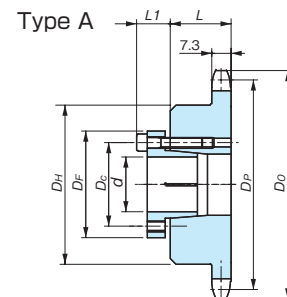
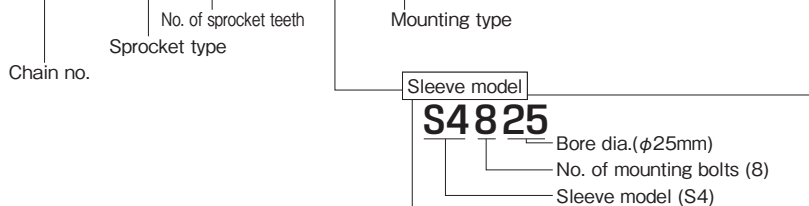
■ RS35 Lock (S Type) List of Permissible Transmission Torque Values (Unit: N · m)

Bore dia.	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
No. of teeth	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
15T																	
16T	58																
17T		63															
18T			69	81	86	92											
19T							158	167	177	186	205						
20T												167	174	195			
21T				121	130	138						223	232	260			
22-40T															279	298	325

RS40 Lock S Type (with Type-A Mounting)

Model No.

RS40-1B21T-S4825A



Order example

Example: RS40-1B, 14 teeth, mounting type A, and bore dia. 14 mm

Product code	Model number
H131266	RS40-1B14T-S1614A

S Type Lock Sleeve Dimensions

Sleeve no.	φDF (mm)	φDc (mm)	L1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

Applicable chain pitch: 12.7 mm ● Roller dia.: 7.92 mm

All models are products with hardened teeth.

Applicable bore dia. d									Model number	Unit	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L
14	15	16	17	18	19	20	22								
Product code (Combination of above bore dia.)															
H13	1266								RS40-1B14T-S16 □□ A	K	14	57.07	63	42	22
H13		1267	1268	1269	1270	1271	1272	1273	RS40-1B14T-S24 □□ A	K					
H13	1274								RS40-1B15T-S16 □□ A	K	15	61.08	67	46	22
H13		1275	1276	1277	1278	1279	1280	1281	RS40-1B15T-S24 □□ A	K					
H13	1285								RS40-1B16T-S16 □□ A	K	16	65.10	71	50	22
H13		1286	1287	1288	1289	1290	1291	1292	RS40-1B16T-S24 □□ A	K					
H13		1296	1297	1298	1299	1300	1301	1302	RS40-1B17T-S24 □□ A	K	17	69.12	76	54	22
H13		1309	1310	1311	1312	1313	1314	1315	RS40-1B18T-S24 □□ A	K	18	73.14	80	57	22
H13		1322	1323	1324	1325	1326	1327	1328	RS40-1B19T-S24 □□ A	K	19	77.16	84	62	22
H13		1335	1336	1337	1338	1339	1340	1341	RS40-1B20T-S25 □□ A	K	20	81.18	88	67	25
H13		1352	1353	1354	1355	1356	1357	1358	RS40-1B21T-S25 □□ A	K	21	85.21	92	71	25
H13		1369	1370	1371	1372	1373	1374	1375	RS40-1B22T-S25 □□ A	K	22	89.24	96	75	25
H13		1386	1387	1388	1389	1390	1391	1392	RS40-1B23T-S25 □□ A	K	23	93.27	100	77	25
H13		1403	1404	1405	1406	1407	1408	1409	RS40-1B24T-S25 □□ A	K	24	97.30	104	63	25
H13			1420	1421	1422	1423	1424	1425	RS40-1B25T-S25 □□ A	K	25	101.33	108	63	25
H13				1437	1438	1439	1440	1441	RS40-1B26T-S25 □□ A	K	26	105.36	112	63	25
H13				1452	1453	1454	1455	1456	RS40-1B27T-S25 □□ A	K	27	109.40	116	63	25
H13				1467	1468	1469	1470	1471	RS40-1B28T-S25 □□ A	K	28	113.43	120	63	25
H13						1482	1483	1484	RS40-1B30T-S25 □□ A	K	30	121.50	128	63	25
H13							1495	1496	RS40-1B32T-S25 □□ A	K	32	129.57	137	68	28

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 12.7 mm ● Roller dia.: 7.92 mm

All models are products with hardened teeth.

	Applicable bore dia. <i>d</i>										Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	24	25	28	30	32	35	38	40	42	45							
Product code (Combination of above bore dia.)																	
H13	1282	1283	1284								RS40-1B15T-S33 □□ A	K	15**	61.08	67	46	22
H13	1293	1294	1295								RS40-1B16T-S33 □□ A	K	16	65.10	71	50	22
H13	1303	1304	1305	1306	1307	1308					RS40-1B17T-S44 □□ A	K	17	69.12	76	54	22
H13	1316	1317	1318	1319	1320	1321					RS40-1B18T-S44 □□ A	K	18	73.14	80	57	22
H13	1329	1330	1331	1332	1333	1334					RS40-1B19T-S44 □□ A	K	19	77.16	84	62	22
H13	1342	1343	1344	1345	1346	1347					RS40-1B20T-S48 □□ A	K	20	81.18	88	67	25
H13							1348	1349	1350	1351	RS40-1B20T-S56 □□ A	K					
H13	1359	1360	1361	1362	1363	1364					RS40-1B21T-S48 □□ A	K	21	85.21	92	71	25
H13							1365	1366	1367	1368	RS40-1B21T-S56 □□ A	K					
H13	1376	1377	1378	1379	1380	1381					RS40-1B22T-S48 □□ A	K	22	89.24	96	75	25
H13							1382	1383	1384	1385	RS40-1B22T-S56 □□ A	K					
H13	1393	1394	1395	1396	1397	1398					RS40-1B23T-S48 □□ A	K	23	93.27	100	77	25
H13							1399	1400	1401	1402	RS40-1B23T-S56 □□ A	K					
H13	1410	1411	1412	1413	1414	1415					RS40-1B24T-S48 □□ A	K	24	97.30	104	63	25
H13							1416	1417	1418	1419	RS40-1B24T-S56 □□ A	K					
H13	1426	1427	1428	1429	1430	1431					RS40-1B25T-S48 □□ A	K	25	101.33	108	63	25
H13							1432	1433	1434	1435	RS40-1B25T-S56 □□ A	K					
H13	1442	1443	1444	1445	1446	1447					RS40-1B26T-S48 □□ A	K	26	105.36	112	63	25
H13							1448	1449	1450	1451	RS40-1B26T-S56 □□ A	K					
H13	1457	1458	1459	1460	1461	1462					RS40-1B27T-S48 □□ A	K	27	109.40	116	63	25
H13							1463	1464	1465	1466	RS40-1B27T-S56 □□ A	K					
H13	1472	1473	1474	1475	1476	1477					RS40-1B28T-S48 □□ A	K	28	113.43	120	63	25
H13							1478	1479	1480	1481	RS40-1B28T-S56 □□ A	K					
H13	1485	1486	1487	1488	1489	1490					RS40-1B30T-S48 □□ A	K	30	121.50	128	63	25
H13							1491	1492	1493	1494	RS40-1B30T-S56 □□ A	K					
H13	1497	1498	1499	1500	1501	1502					RS40-1B32T-S48 □□ A	K	32	129.57	137	68	28
H13							1503	1504	1505	1506	RS40-1B32T-S56 □□ A	K					
H13	1507	1508	1509	1510	1511	1512					RS40-1B34T-S48 □□ A	K	34	137.64	145	68	28
H13							1513	1514	1515	1516	RS40-1B34T-S56 □□ A	K					
H13	1517	1518	1519	1520	1521	1522					RS40-1B35T-S48 □□ A	K	35	141.68	149	68	28
H13							1523	1524	1525	1526	RS40-1B35T-S56 □□ A	K					
H13	1527	1528	1529	1530	1531	1532					RS40-1B36T-S48 □□ A	K	36	145.72	153	68	28
H13							1533	1534	1535	1536	RS40-1B36T-S56 □□ A	K					
H13	1537	1538	1539	1540	1541	1542					RS40-1B38T-S48 □□ A	K	38	153.79	161	68	28
H13							1543	1544	1545	1546	RS40-1B38T-S56 □□ A	K					
H13	1547	1548	1549	1550	1551	1552					RS40-1B40T-S48 □□ A	K	40	161.87	169	68	28
H13							1553	1554	1555	1556	RS40-1B40T-S56 □□ A	K					

* Only type A is available to asterisk-marked models. Type B is not available.

<Time for delivery> All products will be produced in three days.

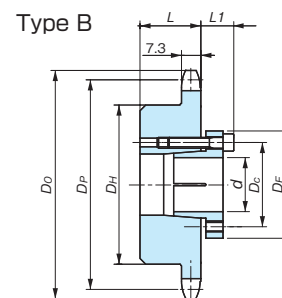
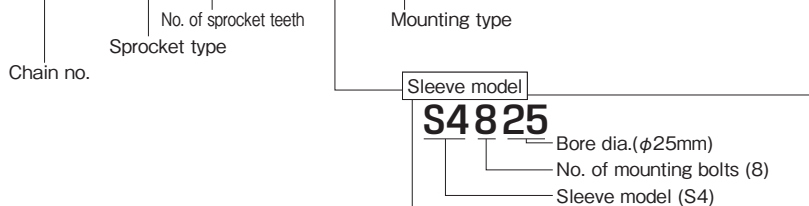
■ RS40 Lock (S Type) List of Permissible Transmission Torque Values (Unit: N · m)

Bore dia.	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
No. of teeth																		
14T																		
15T	121																	
16T		139	149	158	167	177	186	205	167	174	195							
17T																		
18T									223	232	260	279	298	325				
19T																		
20T																		
21T		174	186															
22T				198	209	221	232	256	446	465	521	558	595	651	530	558	586	628
23T																		
24T																		
25T																		
26T																		
27T																		
28T																		
30T																		
32T																		
34-40T																		

RS40 Lock S Type (with Type-B Mounting)

Model No.

RS40-1B21T-S4825B



Order example

Example: RS40-1B, 14 teeth, mounting type B, and bore dia. 14 mm

Product code	Model number
H132266	RS40-1B14T-S1614B

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

Applicable chain pitch: 12.7 mm ● Roller dia.: 7.92 mm

All models are products with hardened teeth.

		Applicable bore dia. d							Model number	Unit	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L
		14	15	16	17	18	19	20							
Product code (Combination of above bore dia.)															
H13	2266								RS40-1B14T-S16 □□ B	K	14	57.07	63	42	22
H13		2267	2268	2269	2270	2271	2272	2273	RS40-1B14T-S24 □□ B	K					
H13	2274								RS40-1B15T-S16 □□ B	K	15	61.08	67	46	22
H13		2275	2276	2277	2278	2279	2280	2281	RS40-1B15T-S24 □□ B	K					
H13	2285								RS40-1B16T-S16 □□ B	K	16	65.10	71	50	22
H13		2286	2287	2288	2289	2290	2291	2292	RS40-1B16T-S24 □□ B	K					
H13		2296	2297	2298	2299	2300	2301	2302	RS40-1B17T-S24 □□ B	K	17	69.12	76	54	22
H13		2309	2310	2311	2312	2313	2314	2315	RS40-1B18T-S24 □□ B	K	18	73.14	80	57	22
H13		2322	2323	2324	2325	2326	2327	2328	RS40-1B19T-S24 □□ B	K	19	77.16	84	62	22
H13		2335	2336	2337	2338	2339	2340	2341	RS40-1B20T-S25 □□ B	K	20	81.18	88	67	25
H13		2352	2353	2354	2355	2356	2357	2358	RS40-1B21T-S25 □□ B	K	21	85.21	92	71	25
H13		2369	2370	2371	2372	2373	2374	2375	RS40-1B22T-S25 □□ B	K	22	89.24	96	75	25
H13		2386	2387	2388	2389	2390	2391	2392	RS40-1B23T-S25 □□ B	K	23	93.27	100	77	25
H13		2403	2404	2405	2406	2407	2408	2409	RS40-1B24T-S25 □□ B	K	24	97.30	104	63	25
H13			2420	2421	2422	2423	2424	2425	RS40-1B25T-S25 □□ B	K	25	101.33	108	63	25
H13				2437	2438	2439	2440	2441	RS40-1B26T-S25 □□ B	K	26	105.36	112	63	25
H13				2452	2453	2454	2455	2456	RS40-1B27T-S25 □□ B	K	27	109.40	116	63	25
H13				2467	2468	2469	2470	2471	RS40-1B28T-S25 □□ B	K	28	113.43	120	63	25
H13						2482	2483	2484	RS40-1B30T-S25 □□ B	K	30	121.50	128	63	25
H13							2495	2496	RS40-1B32T-S25 □□ B	K	32	129.57	137	68	28

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 12.7 mm ● Roller dia.: 7.92 mm

All models are products with hardened teeth.

	Applicable bore dia. <i>d</i>										Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	24	25	28	30	32	35	38	40	42	45							
Product code (Combination of above bore dia.)																	
H13	2293	2294	2295								RS40-1B16T-S33 □□ B	K	16	65.10	71	50	22
H13	2303	2304	2305	2306	2307	2308					RS40-1B17T-S44 □□ B	K	17	69.12	76	54	22
H13	2316	2317	2318	2319	2320	2321					RS40-1B18T-S44 □□ B	K	18	73.14	80	57	22
H13	2329	2330	2331	2332	2333	2334					RS40-1B19T-S44 □□ B	K	19	77.16	84	62	22
H13	2342	2343	2344	2345	2346	2347					RS40-1B20T-S48 □□ B	K	20	81.18	88	67	25
H13							2348	2349	2350	2351	RS40-1B20T-S56 □□ B	K					
H13	2359	2360	2361	2362	2363	2364					RS40-1B21T-S48 □□ B	K	21	85.21	92	71	25
H13							2365	2366	2367	2368	RS40-1B21T-S56 □□ B	K					
H13	2376	2377	2378	2379	2380	2381					RS40-1B22T-S48 □□ B	K	22	89.24	96	75	25
H13							2382	2383	2384	2385	RS40-1B22T-S56 □□ B	K					
H13	2393	2394	2395	2396	2397	2398					RS40-1B23T-S48 □□ B	K	23	93.27	100	77	25
H13							2399	2400	2401	2402	RS40-1B23T-S56 □□ B	K					
H13	2410	2411	2412	2413	2414	2415					RS40-1B24T-S48 □□ B	K	24	97.30	104	63	25
H13							2416	2417	2418	2419	RS40-1B24T-S56 □□ B	K					
H13	2426	2427	2428	2429	2430	2431					RS40-1B25T-S48 □□ B	K	25	101.33	108	63	25
H13							2432	2433	2434	2435	RS40-1B25T-S56 □□ B	K					
H13	2442	2443	2444	2445	2446	2447					RS40-1B26T-S48 □□ B	K	26	105.36	112	63	25
H13							2448	2449	2450	2451	RS40-1B26T-S56 □□ B	K					
H13	2457	2458	2459	2460	2461	2462					RS40-1B27T-S48 □□ B	K	27	109.40	116	63	25
H13							2463	2464	2465	2466	RS40-1B27T-S56 □□ B	K					
H13	2472	2473	2474	2475	2476	2477					RS40-1B28T-S48 □□ B	K	28	113.43	120	63	25
H13							2478	2479	2480	2481	RS40-1B28T-S56 □□ B	K					
H13	2485	2486	2487	2488	2489	2490					RS40-1B30T-S48 □□ B	K	30	121.50	128	63	25
H13							2491	2492	2493	2494	RS40-1B30T-S56 □□ B	K					
H13	2497	2498	2499	2500	2501	2502					RS40-1B32T-S48 □□ B	K	32	129.57	137	68	28
H13							2503	2504	2505	2506	RS40-1B32T-S56 □□ B	K					
H13	2507	2508	2509	2510	2511	2512					RS40-1B34T-S48 □□ B	K	34	137.64	145	68	28
H13							2513	2514	2515	2516	RS40-1B34T-S56 □□ B	K					
H13	2517	2518	2519	2520	2521	2522					RS40-1B35T-S48 □□ B	K	35	141.68	149	68	28
H13							2523	2524	2525	2526	RS40-1B35T-S56 □□ B	K					
H13	2527	2528	2529	2530	2531	2532					RS40-1B36T-S48 □□ B	K	36	145.72	153	68	28
H13							2533	2534	2535	2536	RS40-1B36T-S56 □□ B	K					
H13	2537	2538	2539	2540	2541	2542					RS40-1B38T-S48 □□ B	K	38	153.79	161	68	28
H13							2543	2544	2545	2546	RS40-1B38T-S56 □□ B	K					
H13	2547	2548	2549	2550	2551	2552					RS40-1B40T-S48 □□ B	K	40	161.87	169	68	28
H13							2553	2554	2555	2556	RS40-1B40T-S56 □□ B	K					

<Time for delivery> All products will be produced in three days.

■ RS40 Lock (S Type) List of Permissible Transmission Torque Values

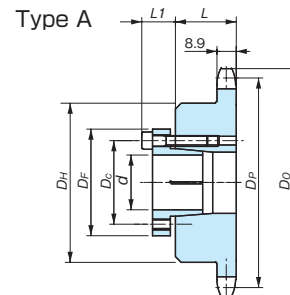
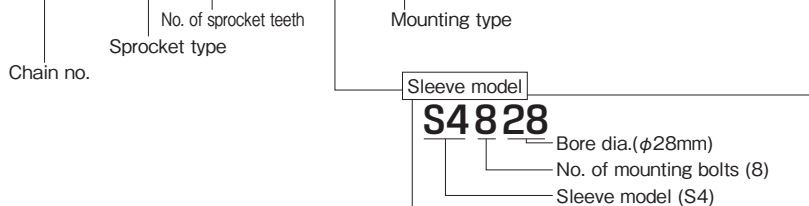
(Unit: N · m)

No. of teeth	Bore dia.	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
14T																			
15T	121																		
16T		139	149	158	167	177	186	205		167	174	195							
17T																			
18T										223	232	260	279	298	325				
19T																			
20T																			
21T																			
22T		174	186																
23T																			
24T				198	209	221	232	256											
25T										446	465	521	558	595	651	530	558	586	628
26T																			
27T																			
28T																			
30T																			
32T																			
34-40T																			

RS50 Lock S Type (with Type-A Mounting)

Model No.

RS50-1B20T-S4828A



Order example

Example: RS50-1B, 14 teeth, mounting type A, and bore dia. 15 mm

Product code	Model number
H131562	RS50-1B14T-S2515A

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 15.875 mm ● Roller dia.: 10.16 mm

Models with up to 35T are provided with hardened teeth.

			Applicable bore dia. <i>d</i>										Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
			15	16	17	18	19	20	22	24	25	28							
Product code (Combination of above bore dia.)																			
H13	1562	1563											RS50-1B14T-S25 □□ A	K	14	71.34	79	52	25
H13			1557	1558	1559	1560	1561						RS50-1B14T-S26 □□ A	K					
H13	1575	1576											RS50-1B15T-S25 □□ A	K					
H13			1564	1565	1566	1567	1568						RS50-1B15T-S26 □□ A	K	15	76.35	84	57	25
H13								1569	1570	1571	1572		RS50-1B15T-S44 □□ A	K					
H13	1588	1589											RS50-1B16T-S25 □□ A	K					
H13			1577	1578	1579	1580	1581						RS50-1B16T-S26 □□ A	K	16	81.37	89	62	25
H13								1582	1583	1584	1585		RS50-1B16T-S44 □□ A	K					
H13						1590	1591						RS50-1B17T-S26 □□ A	K	17	86.39	94	67	25
H13								1592	1593	1594	1595		RS50-1B17T-S48 □□ A	K					
H13								1602					RS50-1B18T-S26 □□ A	K	18	91.42	100	72	28
H13									1603	1604	1605	1606	RS50-1B18T-S48 □□ A	K					
H13								1613					RS50-1B19T-S26 □□ A	K	19	96.45	105	73	28
H13									1614	1615	1616	1617	RS50-1B19T-S48 □□ A	K					
H13									1624	1625	1626	1627	RS50-1B20T-S48 □□ A	K	20	101.48	110	73	28
H13									1634	1635	1636	1637	RS50-1B21T-S48 □□ A	K	21	106.51	115	73	28
H13									1644	1645	1646	1647	RS50-1B22T-S48 □□ A	K	22	111.55	120	73	28
H13									1654	1655	1656	1657	RS50-1B23T-S48 □□ A	K	23	116.59	125	73	28
H13									1664	1665	1666	1667	RS50-1B24T-S48 □□ A	K	24	121.62	130	73	28
H13									1674	1675	1676	1677	RS50-1B25T-S48 □□ A	K	25	126.66	135	73	28
H13									1684	1685	1686	1687	RS50-1B26T-S48 □□ A	K	26	131.70	140	73	28
H13									1694	1695	1696	1697	RS50-1B27T-S48 □□ A	K	27	136.74	145	73	28
H13										1704	1705	1706	RS50-1B28T-S48 □□ A	K	28	141.79	150	73	28
H13										1713	1714	1715	RS50-1B30T-S48 □□ A	K	30	151.87	161	73	28
H13										1722	1723	1724	RS50-1B32T-S48 □□ A	K	32	161.96	171	73	28
H13												1731	RS50-1B34T-S48 □□ A	K	34	172.05	181	73	28

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 15.875 mm ● Roller dia.: 10.16 mm

Models with up to 35T are provided with hardened teeth.

	Applicable bore dia. <i>d</i>									Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) <i>(D_O)</i>	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	32	35	38	40	42	45	48	50	55							
Product code (Combination of above bore dia.)																
H13	1573	1574								RS50-1B15T-S44 □□ A	K	15	76.35	84	57	25
H13	1586	1587								RS50-1B16T-S44 □□ A	K	16	81.37	89	62	25
H13	1596	1597								RS50-1B17T-S48 □□ A	K	17	86.39	94	67	25
H13			1598	1599	1600	1601				RS50-1B17T-S56 □□ A	K					
H13	1607	1608								RS50-1B18T-S48 □□ A	K	18	91.42	100	72	28
H13			1609	1610	1611	1612				RS50-1B18T-S56 □□ A	K					
H13	1618	1619								RS50-1B19T-S48 □□ A	K	19	96.45	105	73	28
H13			1620	1621	1622	1623				RS50-1B19T-S56 □□ A	K					
H13	1628	1629								RS50-1B20T-S48 □□ A	K	20	101.48	110	73	28
H13			1630	1631	1632	1633				RS50-1B20T-S56 □□ A	K					
H13	1638	1639								RS50-1B21T-S48 □□ A	K	21	106.51	115	73	28
H13			1640	1641	1642	1643				RS50-1B21T-S56 □□ A	K					
H13	1648	1649								RS50-1B22T-S48 □□ A	K	22	111.55	120	73	28
H13			1650	1651	1652	1653				RS50-1B22T-S56 □□ A	K					
H13	1658	1659								RS50-1B23T-S48 □□ A	K	23	116.59	125	73	28
H13			1660	1661	1662	1663				RS50-1B23T-S56 □□ A	K					
H13	1668	1669								RS50-1B24T-S48 □□ A	K	24	121.62	130	73	28
H13			1670	1671	1672	1673				RS50-1B24T-S56 □□ A	K					
H13	1678	1679								RS50-1B25T-S48 □□ A	K	25	126.66	135	73	28
H13			1680	1681	1682	1683				RS50-1B25T-S56 □□ A	K					
H13	1688	1689								RS50-1B26T-S48 □□ A	K	26	131.70	140	73	28
H13			1690	1691	1692	1693				RS50-1B26T-S56 □□ A	K					
H13	1698	1699								RS50-1B27T-S48 □□ A	K	27	136.74	145	73	28
H13			1700	1701	1702	1703				RS50-1B27T-S56 □□ A	K					
H13	1707	1708								RS50-1B28T-S48 □□ A	K	28	141.79	150	73	28
H13			1709	1710	1711	1712				RS50-1B28T-S56 □□ A	K					
H13	1716	1717								RS50-1B30T-S48 □□ A	K	30	151.87	161	73	28
H13			1718	1719	1720	1721				RS50-1B30T-S56 □□ A	K					
H13	1725	1726								RS50-1B32T-S48 □□ A	K	32	161.96	171	73	28
H13			1727	1728	1729	1730				RS50-1B32T-S56 □□ A	K					
H13	1732	1733								RS50-1B34T-S48 □□ A	K	34	172.05	181	73	28
H13			1734	1735	1736	1737				RS50-1B34T-S56 □□ A	K					
H13	1738	1739								RS50-1B35T-S48 □□ A	K	35	177.10	186	73	28
H13			1740	1741	1742	1743				RS50-1B35T-S56 □□ A	K					
H13			1744	1745	1746	1747				RS50-1B36T-S510 □□ A	K	36	182.15	191	83	35
H13							1748	1749	1750	RS50-1B36T-S66 □□ A	K					
H13			1751	1752	1753	1754				RS50-1B38T-S510 □□ A	K	38	192.24	201	83	35
H13							1755	1756	1757	RS50-1B38T-S66 □□ A	K					
H13			1758	1759	1760	1761				RS50-1B40T-S510 □□ A	K	40	202.33	211	83	35
H13							1762	1763	1764	RS50-1B40T-S66 □□ A	K					

<Time for delivery> All products will be produced in three days.

■ RS50 Lock (S Type) List of Permissible Transmission Torque Values

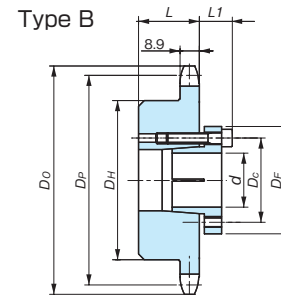
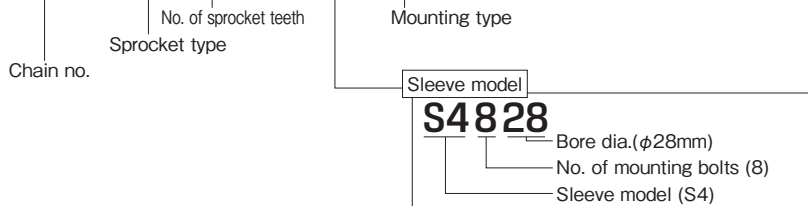
(Unit: N · m)

Bore dia.	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
No. of teeth	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
14T																				
15T	174	186	237	251	265	279	307	223	232	260	279	298	325							
16T																				
17T																				
18T																				
19T																				
20T																				
21T																				
22T								446												
23T																				
24T																				
25T																				
26T																				
27T																				
28T																				
30T																				
32T																				
34T																				
35T																				
36-40T														883	930	976	1048	1116	1162	1279

RS50 Lock S Type (with Type-B Mounting)

Model No.

RS50-1B20T-S4828B



Order example

Example: RS50-1B, 14 teeth, mounting type B, and bore dia. 15 mm

Product code	Model number
H132562	RS50-1B14T-S2515B

S Type Lock Sleeve Dimensions

Sleeve no.	φ D _F (mm)	φ D _C (mm)	L ₁ (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 15.875 mm ● Roller dia.: 10.16 mm

Models with up to 35T are provided with hardened teeth.

			Applicable bore dia. <i>d</i>										Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
			15	16	17	18	19	20	22	24	25	28							
Product code (Combination of above bore dia.)																			
H13	2562	2563											RS50-1B14T-S25 □□ B	K	14	71.34	79	52	25
H13			2557	2558	2559	2560	2561						RS50-1B14T-S26 □□ B	K					
H13	2575	2576											RS50-1B15T-S25 □□ B	K					
H13			2564	2565	2566	2567	2568						RS50-1B15T-S26 □□ B	K	15	76.35	84	57	25
H13								2569	2570	2571	2572		RS50-1B15T-S44 □□ B	K					
H13	2588	2589											RS50-1B16T-S25 □□ B	K					
H13			2577	2578	2579	2580	2581						RS50-1B16T-S26 □□ B	K	16	81.37	89	62	25
H13								2582	2583	2584	2585		RS50-1B16T-S44 □□ B	K					
H13						2590	2591						RS50-1B17T-S26 □□ B	K	17	86.39	94	67	25
H13								2592	2593	2594	2595		RS50-1B17T-S48 □□ B	K					
H13							2602						RS50-1B18T-S26 □□ B	K	18	91.42	100	72	28
H13								2603	2604	2605	2606		RS50-1B18T-S48 □□ B	K					
H13							2613						RS50-1B19T-S26 □□ B	K	19	96.45	105	73	28
H13								2614	2615	2616	2617		RS50-1B19T-S48 □□ B	K					
H13								2624	2625	2626	2627		RS50-1B20T-S48 □□ B	K	20	101.48	110	73	28
H13								2634	2635	2636	2637		RS50-1B21T-S48 □□ B	K	21	106.51	115	73	28
H13								2644	2645	2646	2647		RS50-1B22T-S48 □□ B	K	22	111.55	120	73	28
H13								2654	2655	2656	2657		RS50-1B23T-S48 □□ B	K	23	116.59	125	73	28
H13								2664	2665	2666	2667		RS50-1B24T-S48 □□ B	K	24	121.62	130	73	28
H13								2674	2675	2676	2677		RS50-1B25T-S48 □□ B	K	25	126.66	135	73	28
H13								2684	2685	2686	2687		RS50-1B26T-S48 □□ B	K	26	131.70	140	73	28
H13								2694	2695	2696	2697		RS50-1B27T-S48 □□ B	K	27	136.74	145	73	28
H13									2704	2705	2706		RS50-1B28T-S48 □□ B	K	28	141.79	150	73	28
H13									2713	2714	2715		RS50-1B30T-S48 □□ B	K	30	151.87	161	73	28
H13									2722	2723	2724		RS50-1B32T-S48 □□ B	K	32	161.96	171	73	28
H13											2731		RS50-1B34T-S48 □□ B	K	34	172.05	181	73	28

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 15.875 mm ● Roller dia.: 10.16 mm

Models with up to 35T are provided with hardened teeth.

	Applicable bore dia. <i>d</i>									Model number	Unit	Standard price (Yen)	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	32	35	38	40	42	45	48	50	55								
Product code (Combination of above bore dia.)																	
H13	2573	2574								RS50-1B15T-S44 □□ B	K	5,100	15	76.35	84	57	25
H13	2586	2587								RS50-1B16T-S44 □□ B	K	5,200	16	81.37	89	62	25
H13	2596	2597								RS50-1B17T-S48 □□ B	K	5,600	17	86.39	94	67	25
H13			2598	2599	2600	2601				RS50-1B17T-S56 □□ B	K						
H13	2607	2608								RS50-1B18T-S48 □□ B	K	5,600	18	91.42	100	72	28
H13			2609	2610	2611	2612				RS50-1B18T-S56 □□ B	K						
H13	2618	2619								RS50-1B19T-S48 □□ B	K	5,800	19	96.45	105	73	28
H13			2620	2621	2622	2623				RS50-1B19T-S56 □□ B	K						
H13	2628	2629								RS50-1B20T-S48 □□ B	K	5,900	20	101.48	110	73	28
H13			2630	2631	2632	2633				RS50-1B20T-S56 □□ B	K						
H13	2638	2639								RS50-1B21T-S48 □□ B	K	6,000	21	106.51	115	73	28
H13			2640	2641	2642	2643				RS50-1B21T-S56 □□ B	K						
H13	2648	2649								RS50-1B22T-S48 □□ B	K	6,000	22	111.55	120	73	28
H13			2650	2651	2652	2653				RS50-1B22T-S56 □□ B	K						
H13	2658	2659								RS50-1B23T-S48 □□ B	K	6,100	23	116.59	125	73	28
H13			2660	2661	2662	2663				RS50-1B23T-S56 □□ B	K						
H13	2668	2669								RS50-1B24T-S48 □□ B	K	6,200	24	121.62	130	73	28
H13			2670	2671	2672	2673				RS50-1B24T-S56 □□ B	K						
H13	2678	2679								RS50-1B25T-S48 □□ B	K	6,300	25	126.66	135	73	28
H13			2680	2681	2682	2683				RS50-1B25T-S56 □□ B	K						
H13	2688	2689								RS50-1B26T-S48 □□ B	K	6,700	26	131.70	140	73	28
H13			2690	2691	2692	2693				RS50-1B26T-S56 □□ B	K						
H13	2698	2699								RS50-1B27T-S48 □□ B	K	6,900	27	136.74	145	73	28
H13			2700	2701	2702	2703				RS50-1B27T-S56 □□ B	K						
H13	2707	2708								RS50-1B28T-S48 □□ B	K	7,100	28	141.79	150	73	28
H13			2709	2710	2711	2712				RS50-1B28T-S56 □□ B	K						
H13	2716	2717								RS50-1B30T-S48 □□ B	K	7,200	30	151.87	161	73	28
H13			2718	2719	2720	2721				RS50-1B30T-S56 □□ B	K						
H13	2725	2726								RS50-1B32T-S48 □□ B	K	7,500	32	161.96	171	73	28
H13			2727	2728	2729	2730				RS50-1B32T-S56 □□ B	K						
H13	2732	2733								RS50-1B34T-S48 □□ B	K	7,700	34	172.05	181	73	28
H13			2734	2735	2736	2737				RS50-1B34T-S56 □□ B	K						
H13	2738	2739								RS50-1B35T-S48 □□ B	K	7,900	35	177.10	186	73	28
H13			2740	2741	2742	2743				RS50-1B35T-S56 □□ B	K						
H13			2744	2745	2746	2747				RS50-1B36T-S510 □□ B	K	8,200	36	182.15	191	83	35
H13							2748	2749	2750	RS50-1B36T-S66 □□ B	K						
H13			2751	2752	2753	2754				RS50-1B38T-S510 □□ B	K	8,400	38	192.24	201	83	35
H13							2755	2756	2757	RS50-1B38T-S66 □□ B	K						
H13			2758	2759	2760	2761				RS50-1B40T-S510 □□ B	K	8,600	40	202.33	211	83	35
H13							2762	2763	2764	RS50-1B40T-S66 □□ B	K						

<Time for delivery> All products will be produced in three days.

■ RS50 Lock (S Type) List of Permissible Transmission Torque Values

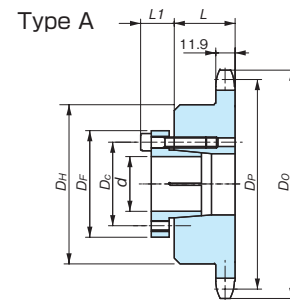
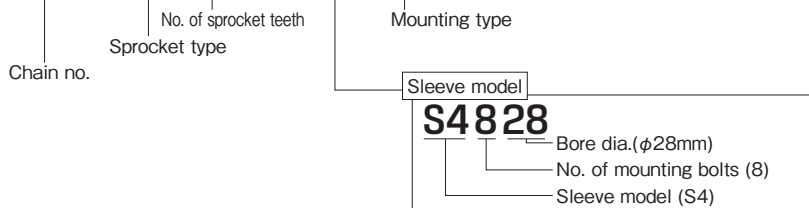
(Unit: N · m)

No. of teeth	Bore dia.																			
	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
14T																				
15T	174	186	237	251	265	279		223	232	260	279	298	325							
16T							307													
17T																				
18T																				
19T																				
20T																				
21T																				
22T								446												
23T									465	521										
24T											558									
25T												595	651	530	558	586	628			
26T																				
27T																				
28T																				
30T																				
32T																				
34T																				
35T																				
36-40T														883	930	976	1048	1116	1162	1279

RS60 Lock S Type (with Type-A Mounting)

Model No.

RS60-1B16T-S4828A



Order example

Example: RS60-1B, 12 teeth, mounting type A, and bore dia. 18 mm

Product code	Model number
H131765	RS60-1B12T-S2618A

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 19.05 mm ● Roller dia.: 11.91 mm

Models with up to 30T are provided with hardened teeth.

Applicable bore dia. <i>d</i>											Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
18	19	20	22	24	25	28	30	32	35								
Product code (Combination of above bore dia.)																	
H13	1765	1766	1767	1768							RS60-1B12T-S26 □□ A	K	12	73.60	82	51	32
H13	1769	1770	1771	1772							RS60-1B13T-S26 □□ A	K	13	79.60	89	57	32
H13					1773	1774	1775	1776	1777	1778	RS60-1B13T-S46 □□ A	K					
H13	1779	1780	1781	1782							RS60-1B14T-S26 □□ A	K	14	85.61	94	62	32
H13					1783	1784	1785	1786	1787	1788	RS60-1B14T-S46 □□ A	K					
H13					1789	1790	1791	1792	1793	1794	RS60-1B15T-S48 □□ A	K	15	91.63	101	68	32
H13					1799	1800	1801	1802	1803	1804	RS60-1B16T-S48 □□ A	K	16	97.65	107	73	32
H13						1809	1810	1811	1812	1813	RS60-1B17T-S48 □□ A	K	17	103.67	113	73	32
H13							1818	1819	1820	1821	RS60-1B18T-S48 □□ A	K	18	109.70	119	83	40
H13							1829	1830	1831	1832	RS60-1B19T-S48 □□ A	K	19	115.74	126	83	40
H13								1840	1841	1842	RS60-1B20T-S48 □□ A	K	20	121.78	132	83	40
H13									1850	1851	RS60-1B21T-S48 □□ A	K	21	127.82	138	83	40
H13									1859	1860	RS60-1B22T-S48 □□ A	K	22	133.86	144	83	40
H13										1868	RS60-1B23T-S48 □□ A	K	23	139.90	150	83	40
H13										1876	RS60-1B24T-S48 □□ A	K	24	145.95	156	83	40
H13										1884	RS60-1B25T-S48 □□ A	K	25	151.99	162	83	40

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 19.05 mm ● Roller dia.: 11.91 mm

Models with up to 30T are provided with hardened teeth.

	Applicable bore dia. <i>d</i>							Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	38	40	42	45	48	50	55							
Product code (Combination of above bore dia.)														
H13	1795	1796	1797	1798				RS60-1B15T-S56 □□ A	K	15	91.63	101	68	32
H13	1805	1806	1807	1808				RS60-1B16T-S56 □□ A	K	16	97.65	107	73	32
H13	1814	1815	1816	1817				RS60-1B17T-S56 □□ A	K	17	103.67	113	73	32
H13	1822	1823	1824	1825				RS60-1B18T-S510 □□ A	K	18	109.70	119	83	40
H13					1826	1827	1828	RS60-1B18T-S66 □□ A	K					
H13	1833	1834	1835	1836				RS60-1B19T-S510 □□ A	K	19	115.74	126	83	40
H13					1837	1838	1839	RS60-1B19T-S66 □□ A	K					
H13	1843	1844	1845	1846				RS60-1B20T-S510 □□ A	K	20	121.78	132	83	40
H13					1847	1848	1849	RS60-1B20T-S66 □□ A	K					
H13	1852	1853	1854	1855				RS60-1B21T-S510 □□ A	K	21	127.82	138	83	40
H13					1856	1857	1858	RS60-1B21T-S66 □□ A	K					
H13	1861	1862	1863	1864				RS60-1B22T-S510 □□ A	K	22	133.86	144	83	40
H13					1865	1866	1867	RS60-1B22T-S66 □□ A	K					
H13	1869	1870	1871	1872				RS60-1B23T-S510 □□ A	K	23	139.90	150	83	40
H13					1873	1874	1875	RS60-1B23T-S66 □□ A	K					
H13	1877	1878	1879	1880				RS60-1B24T-S510 □□ A	K	24	145.95	156	83	40
H13					1881	1882	1883	RS60-1B24T-S66 □□ A	K					
H13	1885	1886	1887	1888				RS60-1B25T-S510 □□ A	K	25	151.99	162	83	40
H13					1889	1890	1891	RS60-1B25T-S66 □□ A	K					
H13	1892	1893	1894	1895				RS60-1B26T-S510 □□ A	K	26	158.04	168	83	40
H13					1896	1897	1898	RS60-1B26T-S66 □□ A	K					
H13	1899	1900	1901	1902				RS60-1B27T-S510 □□ A	K	27	164.09	174	83	40
H13					1903	1904	1905	RS60-1B27T-S66 □□ A	K					
H13	1906	1907	1908	1909				RS60-1B28T-S510 □□ A	K	28	170.14	180	83	40
H13					1910	1911	1912	RS60-1B28T-S66 □□ A	K					
H13	1913	1914	1915	1916				RS60-1B30T-S510 □□ A	K	30	182.25	193	83	40
H13					1917	1918	1919	RS60-1B30T-S66 □□ A	K					
H13	1920	1921	1922	1923				RS60-1B32T-S510 □□ A	K	32	194.35	205	83	40
H13					1924	1925	1926	RS60-1B32T-S66 □□ A	K					
H13		1927	1928	1929				RS60-1B34T-S510 □□ A	K	34	206.46	217	83	40
H13					1930	1931	1932	RS60-1B34T-S66 □□ A	K					
H13				1933				RS60-1B35T-S510 □□ A	K	35	212.52	223	83	40
H13					1934	1935	1936	RS60-1B35T-S66 □□ A	K					
H13				1937				RS60-1B36T-S510 □□ A	K	36	218.57	229	83	40
H13					1938	1939	1940	RS60-1B36T-S66 □□ A	K					
H13				1941				RS60-1B38T-S510 □□ A	K	38	230.69	241	83	40
H13					1942	1943	1944	RS60-1B38T-S66 □□ A	K					
H13					1945	1946	1947	RS60-1B40T-S66 □□ A	K	40	242.80	253	83	40

<Time for delivery> All products will be produced in three days.

■ RS60 Lock (S Type) List of Permissible Transmission Torque Values

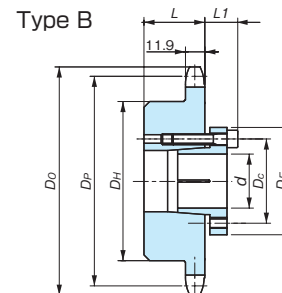
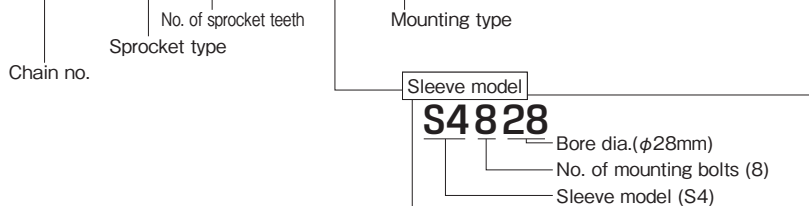
(Unit: N · m)

Bore dia. No. of teeth	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
12T																	
13T	251	265	279	307													
14T					335	349	391	418	446	488							
15T																	
16T					446	465					530	558	586	628			
17T							521	558									
18T									595								
19T										651							
20T																	
21T																	
22T																	
23T																	
24T											883						
25T												930	976				
26T														1048			
27T															1116	1162	1279
28T																	
30T																	
32T																	
34T																	
35T																	
36T																	
38T																	
40T																	

RS60 Lock S Type (with Type-B Mounting)

Model No.

RS60-1B16T-S4828B



Order example

Example: RS60-1B, 12 teeth, mounting type B, and bore dia. 18 mm

Product code	Model number
H132765	RS60-1B12T-S2618B

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 19.05 mm ● Roller dia.: 11.91 mm

Models with up to 30T are provided with hardened teeth.

	Applicable bore dia. d										Model number	Unit	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	
	18	19	20	22	24	25	28	30	32	35								
Product code (Combination of above bore dia.)																		
H13	2765	2766	2767	2768							RS60-1B12T-S26 □□ B	K	12	73.60	83	51	32	
H13	2769	2770	2771	2772							RS60-1B13T-S26 □□ B	K	13	79.60	89	57	32	
H13					2773	2774	2775	2776	2777	2778	RS60-1B13T-S46 □□ B	K						
H13	2779	2780	2781	2782							RS60-1B14T-S26 □□ B	K	14	85.61	95	62	32	
H13					2783	2784	2785	2786	2787	2788	RS60-1B14T-S46 □□ B	K						
H13					2789	2790	2791	2792	2793	2794	RS60-1B15T-S48 □□ B	K	15	91.63	101	68	32	
H13					2799	2800	2801	2802	2803	2804	RS60-1B16T-S48 □□ B	K	16	97.65	107	73	32	
H13						2809	2810	2811	2812	2813	RS60-1B17T-S48 □□ B	K	17	103.67	113	73	32	
H13							2818	2819	2820	2821	RS60-1B18T-S48 □□ B	K	18	109.70	119	83	40	
H13							2829	2830	2831	2832	RS60-1B19T-S48 □□ B	K	19	115.74	126	83	40	
H13								2840	2841	2842	RS60-1B20T-S48 □□ B	K	20	121.78	132	83	40	
H13									2850	2851	RS60-1B21T-S48 □□ B	K	21	127.82	138	83	40	
H13										2859	2860	RS60-1B22T-S48 □□ B	K	22	133.86	144	83	40
H13											2868	RS60-1B23T-S48 □□ B	K	23	139.90	150	83	40
H13											2876	RS60-1B24T-S48 □□ B	K	24	145.95	156	83	40
H13											2884	RS60-1B25T-S48 □□ B	K	25	151.99	162	83	40

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 19.05 mm ● Roller dia.: 11.91 mm

Models with up to 30T are provided with hardened teeth.

	Applicable bore dia. <i>d</i>							Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	38	40	42	45	48	50	55							
Product code (Combination of above bore dia.)														
H13	2795	2796	2797	2798				RS60-1B15T-S56 □□ B	K	15	91.63	101	68	32
H13	2805	2806	2807	2808				RS60-1B16T-S56 □□ B	K	16	97.65	107	73	32
H13	2814	2815	2816	2817				RS60-1B17T-S56 □□ B	K	17	103.67	113	73	32
H13	2822	2823	2824	2825	2826	2827	2828	RS60-1B18T-S510 □□ B	K	18	109.70	119	83	40
H13								RS60-1B18T-S66 □□ B	K					
H13	2833	2834	2835	2836	2837	2838	2839	RS60-1B19T-S510 □□ B	K	19	115.74	126	83	40
H13								RS60-1B19T-S66 □□ B	K					
H13	2843	2844	2845	2846	2847	2848	2849	RS60-1B20T-S510 □□ B	K	20	121.78	132	83	40
H13								RS60-1B20T-S66 □□ B	K					
H13	2852	2853	2854	2855	2856	2857	2858	RS60-1B21T-S510 □□ B	K	21	127.82	138	83	40
H13								RS60-1B21T-S66 □□ B	K					
H13	2861	2862	2863	2864	2865	2866	2867	RS60-1B22T-S510 □□ B	K	22	133.86	144	83	40
H13								RS60-1B22T-S66 □□ B	K					
H13	2869	2870	2871	2872	2873	2874	2875	RS60-1B23T-S510 □□ B	K	23	139.90	150	83	40
H13								RS60-1B23T-S66 □□ B	K					
H13	2877	2878	2879	2880	2881	2882	2883	RS60-1B24T-S510 □□ B	K	24	145.95	156	83	40
H13								RS60-1B24T-S66 □□ B	K					
H13	2885	2886	2887	2888	2889	2890	2891	RS60-1B25T-S510 □□ B	K	25	151.99	162	83	40
H13								RS60-1B25T-S66 □□ B	K					
H13	2892	2893	2894	2895	2896	2897	2898	RS60-1B26T-S510 □□ B	K	26	158.04	168	83	40
H13								RS60-1B26T-S66 □□ B	K					
H13	2899	2900	2901	2902	2903	2904	2905	RS60-1B27T-S510 □□ B	K	27	164.09	174	83	40
H13								RS60-1B27T-S66 □□ B	K					
H13	2906	2907	2908	2909	2910	2911	2912	RS60-1B28T-S510 □□ B	K	28	170.14	180	83	40
H13								RS60-1B28T-S66 □□ B	K					
H13	2913	2914	2915	2916	2917	2918	2919	RS60-1B30T-S510 □□ B	K	30	182.25	193	83	40
H13								RS60-1B30T-S66 □□ B	K					
H13	2920	2921	2922	2923	2924	2925	2926	RS60-1B32T-S510 □□ B	K	32	194.35	205	83	40
H13								RS60-1B32T-S66 □□ B	K					
H13		2927	2928	2929	2930	2931	2932	RS60-1B34T-S510 □□ B	K	34	206.46	217	83	40
H13								RS60-1B34T-S66 □□ B	K					
H13				2933	2934	2935	2936	RS60-1B35T-S510 □□ B	K	35	212.52	223	83	40
H13								RS60-1B35T-S66 □□ B	K					
H13				2937	2938	2939	2940	RS60-1B36T-S510 □□ B	K	36	218.57	229	83	40
H13								RS60-1B36T-S66 □□ B	K					
H13				2941	2942	2943	2944	RS60-1B38T-S510 □□ B	K	38	230.69	241	83	40
H13								RS60-1B38T-S66 □□ B	K					
H13					2945	2946	2947	RS60-1B40T-S66 □□ B	K	40	242.80	253	83	40

<Time for delivery> All products will be produced in three days.

■ RS60 Lock (S Type) List of Permissible Transmission Torque Values

(Unit: N · m)

Bore dia. No. of teeth	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
12T																	
13T	251	265	279	307													
14T					335	349	391	418	446	488							
15T																	
16T					446	465					530	558	586	628			
17T							521	558									
18T																	
19T									595								
20T										651							
21T																	
22T																	
23T																	
24T											883						
25T												930	976				
26T														1048			
27T															1116	1162	1279
28T																	
30T																	
32T																	
34T																	
35T																	
36T																	
38T																	
40T																	

RS80 Lock S Type (with Type-A Mounting)

Model No.

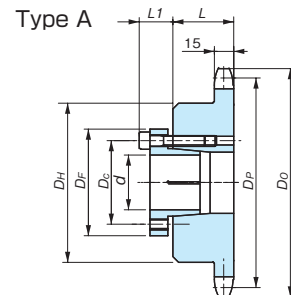
RS80-1B18T-S51038A

Chain no. No. of sprocket teeth Sprocket type Mounting type

Sleeve model

S51038

Bore dia.(ϕ 38mm)
No. of mounting bolts (10)
Sleeve model (S5)



Order example

Example: RS80-1B, 12 teeth, mounting type A, and bore dia. 24 mm

Product code	Model number
H133001	RS80-1B12T-S4824A

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 25.4 mm ● Roller dia.: 15.88 mm

Models with up to 21T are provided with hardened teeth.

Applicable bore dia. d											Model number	Unit	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L	
24	25	28	30	32	35	38	40	42	45									
Product code (Combination of above bore dia.)																		
H13	3001	3002	3003	3004	3005	3006					RS80-1B12T-S48 □□ A	K	12	98.14	110	67	40	
H13	3007	3008	3009	3010	3011	3012					RS80-1B13T-S48 □□ A	K	13	106.14	118	77	40	
H13							3013	3014	3015	3016	RS80-1B13T-S510 □□ A	K						
H13	3017	3018	3019	3020	3021	3022					RS80-1B14T-S48 □□ A	K	14	114.15	127	77	40	
H13							3023	3024	3025	3026	RS80-1B14T-S510 □□ A	K						
H13							3027	3028	3029	3030	3031	RS80-1B15T-S510 □□ A	K	15	122.17	135	93	40
H13							3035	3036	3037	3038	3039	RS80-1B16T-S510 □□ A	K	16	130.20	143	93	40
H13							3043	3044	3045	3046	3047	RS80-1B17T-S510 □□ A	K	17	138.23	151	93	40
H13							3051	3052	3053	3054	3055	RS80-1B18T-S510 □□ A	K	18	146.27	159	93	40
H13							3059	3060	3061	3062	3063	RS80-1B19T-S510 □□ A	K	19	154.32	167	93	40
H13							3067	3068	3069	3070	3071	RS80-1B20T-S510 □□ A	K	20	162.37	176	93	40
H13							3075	3076	3077	3078	3079	RS80-1B21T-S510 □□ A	K	21	170.42	184	93	40

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 25.4 mm ● Roller dia.: 15.88 mm

Models with up to 21T are provided with hardened teeth.

	Applicable bore dia. <i>d</i>						Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	48	50	55	60	65	70							
Product code (Combination of above bore dia.)													
H13	3032	3033	3034				RS80-1B15T-S66 □□ A	K	15	122.17	135	93	40
H13	3040	3041	3042				RS80-1B16T-S66 □□ A	K	16	130.20	143	93	40
H13	3048	3049	3050				RS80-1B17T-S66 □□ A	K	17	138.23	151	93	40
H13	3056	3057	3058				RS80-1B18T-S66 □□ A	K	18	146.27	159	93	40
H13	3064	3065	3066				RS80-1B19T-S66 □□ A	K	19	154.32	167	93	40
H13	3072	3073	3074				RS80-1B20T-S68 □□ A	K	20	162.37	176	93	40
H13	3080	3081	3082				RS80-1B21T-S68 □□ A	K	21	170.42	184	93	40
H13	3083	3084	3085				RS80-1B22T-S612 □□ A	K	22	178.48	192	107	45
H13				3086	3087	3088	RS80-1B22T-S75 □□ A	K					
H13	3089	3090	3091				RS80-1B23T-S612 □□ A	K	23	186.54	200	107	45
H13				3092	3093	3094	RS80-1B23T-S75 □□ A	K					
H13	3095	3096	3097				RS80-1B24T-S612 □□ A	K	24	194.60	208	107	45
H13				3098	3099	3100	RS80-1B24T-S75 □□ A	K					
H13	3101	3102	3103				RS80-1B25T-S612 □□ A	K	25	202.66	216	107	45
H13				3104	3105	3106	RS80-1B25T-S75 □□ A	K					
H13	3107	3108	3109				RS80-1B26T-S612 □□ A	K	26	210.72	224	107	45
H13				3110	3111	3112	RS80-1B26T-S75 □□ A	K					
H13	3113	3114	3115				RS80-1B27T-S612 □□ A	K	27	218.79	233	107	45
H13				3116	3117	3118	RS80-1B27T-S75 □□ A	K					
H13	3119	3120	3121				RS80-1B28T-S612 □□ A	K	28	226.86	241	107	45
H13				3122	3123	3124	RS80-1B28T-S75 □□ A	K					
H13	3125	3126	3127				RS80-1B30T-S612 □□ A	K	30	243.00	257	107	45
H13				3128	3129	3130	RS80-1B30T-S75 □□ A	K					
H13	3131	3132	3133				RS80-1B32T-S612 □□ A	K	32	259.14	273	107	45
H13				3134	3135	3136	RS80-1B32T-S75 □□ A	K					
H13	3137	3138	3139				RS80-1B34T-S612 □□ A	K	34	275.28	289	107	45
H13				3140	3141	3142	RS80-1B34T-S75 □□ A	K					
H13	3143	3144	3145				RS80-1B35T-S612 □□ A	K	35	283.36	297	107	45
H13				3146	3147	3148	RS80-1B35T-S75 □□ A	K					

<Time for delivery> All products will be produced in three days.

■ RS80 Lock (S Type) List of Permissible Transmission Torque Values

(Unit: N · m)

Bore dia.	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70
No. of teeth																
12T																
13T	446	465	521	558	595	651										
14T																
15T																
16T																
17T																
18T																
19T																
20T																
21T																
22-35T											2232	2325	2557	2140	2319	2497

RS80 Lock S Type (with Type-B Mounting)

Model No.

RS80-1B18T-S51038B

Chain no.

No. of sprocket teeth
Sprocket type

Mounting type

Sleeve model

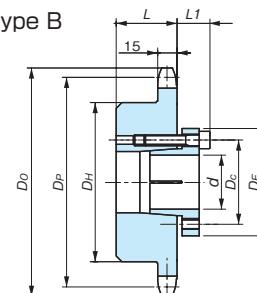
S51038

Bore dia.($\phi 38$ mm)

No. of mounting bolts (10)

Sleeve model (S5)

Type B



Order example

Example: RS80-1B, 12 teeth, mounting type B, and bore dia. 24 mm

Product code	Model number
H134001	RS80-1B12T-S4824B

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 25.4 mm ● Roller dia.: 15.88 mm

Models with up to 21T are provided with hardened teeth.

Applicable bore dia. d											Model number	Unit	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_O)	Hub diameter D_H	Hub length L	
24	25	28	30	32	35	38	40	42	45									
Product code (Combination of above bore dia.)																		
H13	4001	4002	4003	4004	4005	4006					RS80-1B12T-S48 □□ B	K	12	98.14	110	67	40	
H13	4007	4008	4009	4010	4011	4012					RS80-1B13T-S48 □□ B	K	13	106.14	118	77	40	
H13							4013	4014	4015	4016	RS80-1B13T-S510 □□ B	K						
H13	4017	4018	4019	4020	4021	4022					RS80-1B14T-S48 □□ B	K	14	114.15	127	77	40	
H13							4023	4024	4025	4026	RS80-1B14T-S510 □□ B	K						
H13							4027	4028	4029	4030	4031	RS80-1B15T-S510 □□ B	K	15	122.17	135	93	40
H13							4035	4036	4037	4038	4039	RS80-1B16T-S510 □□ B	K	16	130.20	143	93	40
H13							4043	4044	4045	4046	4047	RS80-1B17T-S510 □□ B	K	17	138.23	151	93	40
H13							4051	4052	4053	4054	4055	RS80-1B18T-S510 □□ B	K	18	146.27	159	93	40
H13							4059	4060	4061	4062	4063	RS80-1B19T-S510 □□ B	K	19	154.32	167	93	40
H13							4067	4068	4069	4070	4071	RS80-1B20T-S510 □□ B	K	20	162.37	176	93	40
H13							4075	4076	4077	4078	4079	RS80-1B21T-S510 □□ B	K	21	170.42	184	93	40

<Time for delivery> All products will be produced in three days.

● Applicable chain pitch: 25.4 mm ● Roller dia.: 15.88 mm

Models with up to 21T are provided with hardened teeth.

	Applicable bore dia. d						Model number	Unit	Standard price (Yen)	No. of teeth	Pitch circle diameter D_P	(Outer diameter) (D_o)	Hub diameter D_H	Hub length L
	48	50	55	60	65	70								
Product code (Combination of above bore dia.)														
H13	4032	4033	4034				RS80-1B15T-S66 □□ B	K	8,500	15	122.17	135	93	40
H13	4040	4041	4042				RS80-1B16T-S66 □□ B	K	8,700	16	130.20	143	93	40
H13	4048	4049	4050				RS80-1B17T-S66 □□ B	K	9,100	17	138.23	151	93	40
H13	4056	4057	4058				RS80-1B18T-S66 □□ B	K	9,400	18	146.27	159	93	40
H13	4064	4065	4066				RS80-1B19T-S66 □□ B	K	9,700	19	154.32	167	93	40
H13	4072	4073	4074				RS80-1B20T-S68 □□ B	K	10,000	20	162.37	176	93	40
H13	4080	4081	4082				RS80-1B21T-S68 □□ B	K	10,400	21	170.42	184	93	40
H13	4083	4084	4085				RS80-1B22T-S612 □□ B	K	10,600	22	178.48	192	107	45
H13				4086	4087	4088	RS80-1B22T-S75 □□ B	K						
H13	4089	4090	4091				RS80-1B23T-S612 □□ B	K	10,900	23	186.54	200	107	45
H13				4092	4093	4094	RS80-1B23T-S75 □□ B	K						
H13	4095	4096	4097				RS80-1B24T-S612 □□ B	K	11,200	24	194.60	208	107	45
H13				4098	4099	4100	RS80-1B24T-S75 □□ B	K						
H13	4101	4102	4103				RS80-1B25T-S612 □□ B	K	11,500	25	202.66	216	107	45
H13				4104	4105	4106	RS80-1B25T-S75 □□ B	K						
H13	4107	4108	4109				RS80-1B26T-S612 □□ B	K	11,800	26	210.72	224	107	45
H13				4110	4111	4112	RS80-1B26T-S75 □□ B	K						
H13	4113	4114	4115				RS80-1B27T-S612 □□ B	K	12,200	27	218.79	233	107	45
H13				4116	4117	4118	RS80-1B27T-S75 □□ B	K						
H13	4119	4120	4121				RS80-1B28T-S612 □□ B	K	12,500	28	226.86	241	107	45
H13				4122	4123	4124	RS80-1B28T-S75 □□ B	K						
H13	4125	4126	4127				RS80-1B30T-S612 □□ B	K	12,900	30	243.00	257	107	45
H13				4128	4129	4130	RS80-1B30T-S75 □□ B	K						
H13	4131	4132	4133				RS80-1B32T-S612 □□ B	K	13,200	32	259.14	273	107	45
H13				4134	4135	4136	RS80-1B32T-S75 □□ B	K						
H13	4137	4138	4139				RS80-1B34T-S612 □□ B	K	13,600	34	275.28	289	107	45
H13				4140	4141	4142	RS80-1B34T-S75 □□ B	K						
H13	4143	4144	4145				RS80-1B35T-S612 □□ B	K	13,900	35	283.36	297	107	45
H13				4146	4147	4148	RS80-1B35T-S75 □□ B	K						

<Time for delivery> All products will be produced in three days.

■ RS80 Lock (S Type) List of Permissible Transmission Torque Values

(Unit: N · m)

Bore dia.	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70
No. of teeth																
12T																
13T	446	465	521	558	595	651										
14T																
15T																
16T																
17T							883	930	976	1046	1116	1162	1279			
18T																
19T																
20T											1275	1329	1461			
21T																
22-35T											2232	2325	2557	2140	2319	2497

RS100 Lock S Type (with Type-A Mounting)

Model No.

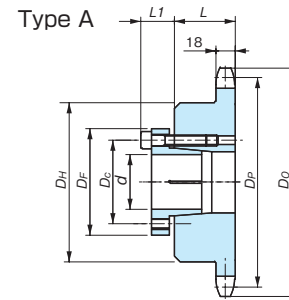
RS100-1B16T-S6848B

Chain no. No. of sprocket teeth Sprocket type Mounting type

Sleeve model

S6848

Bore dia.($\phi 48$ mm)
No. of mounting bolts (8)
Sleeve model (S6)



Order example

Example: RS100-1B, 13 teeth, mounting type A, and bore dia. 48 mm

Product code	Model number
H133149	RS100-B13T-S6848A

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 31.75 mm ● Roller dia.: 19.05 mm

All models are products with standard hardened teeth.

	Applicable bore dia. <i>d</i>						Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	48	50	55	60	65	70							
Product code (Combination of above bore dia.)													
H13	3149	3150	3151				RS100-1B13T-S68 □□ A	K	13	132.67	148	88	50
H13	3152	3153	3154				RS100-1B14T-S68 □□ A	K	14	142.68	158	88	50
H13	3155	3156	3157				RS100-1B15T-S68 □□ A	K	15	152.71	168	98	50
H13	3158	3159	3160				RS100-1B16T-S68 □□ A	K	16	162.75	179	98	50
H13	3161	3162	3163				RS100-1B17T-S612 □□ A	K	17	172.79	189	107	50
H13				3164	3165	3166	RS100-1B17T-S75 □□ A	K					
H13	3167	3168	3169				RS100-1B18T-S612 □□ A	K	18	182.84	199	107	50
H13				3170	3171	3172	RS100-1B18T-S75 □□ A	K					
H13	3173	3174	3175				RS100-1B19T-S612 □□ A	K	19	192.90	209	107	50
H13				3176	3177	3178	RS100-1B19T-S75 □□ A	K					
H13	3179	3180	3181				RS100-1B20T-S612 □□ A	K	20	202.96	220	107	50
H13				3182	3183	3184	RS100-1B20T-S75 □□ A	K					
H13	3185	3186	3187				RS100-1B21T-S612 □□ A	K	21	213.03	230	107	50
H13				3188	3189	3190	RS100-1B21T-S75 □□ A	K					

<Time for delivery> All products will be produced in three days.

RS100 Lock Sprocket

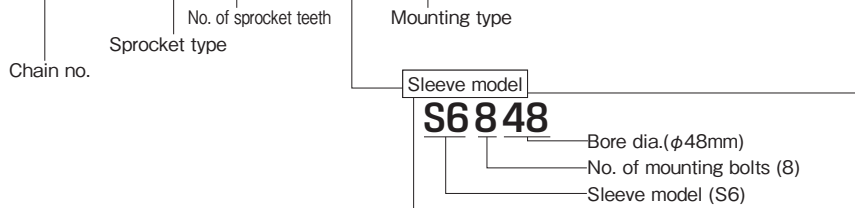
List of Permissible Transmission Torque Values (Unit: N·m)

Bore dia.	48	50	55	60	65	70
No. of teeth						
13T						
14T						
15T	1488	1550	1705			
16T						
17T						
18T						
19T	2232	2325	2257	2140	2319	2497
20T						
21T						

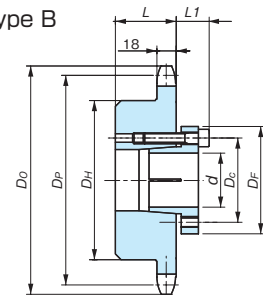
RS100 Lock S Type (with Type-B Mounting)

Model No.

RS100-1B16T-S6848B



Type B



注文記入例

Example: RS100-1B, 13 teeth, mounting type B, and bore dia. 48 mm

Product code	Model number
H133149	RS100-1B13T-S6848B

S Type Lock Sleeve Dimensions

Sleeve no.	ϕD_f (mm)	ϕD_c (mm)	L_1 (mm)	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.0	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Applicable chain pitch: 31.75 mm ● Roller dia.: 19.05 mm

All models are products with standard hardened teeth.

	Applicable bore dia. <i>d</i>						Model number	Unit	No. of teeth	Pitch circle diameter <i>D_P</i>	(Outer diameter) (<i>D_O</i>)	Hub diameter <i>D_H</i>	Hub length <i>L</i>
	48	50	55	60	65	70							
Product code (Combination of above bore dia.)													
H13	4149	4150	4151				RS100-1B13T-S68 □□ B	K	13	132.67	148	88	50
H13	4152	4153	4154				RS100-1B14T-S68 □□ B	K	14	142.68	158	88	50
H13	4155	4156	4157				RS100-1B15T-S68 □□ B	K	15	152.71	168	98	50
H13	4158	4159	4160				RS100-1B16T-S68 □□ B	K	16	162.75	179	98	50
H13	4161	4162	4163	4164	4165	4166	RS100-1B17T-S612 □□ B	K	17	172.79		107	50
H13							RS100-1B17T-S75 □□ B	K					
H13	4167	4168	4169	4170	4171	4172	RS100-1B18T-S612 □□ B	K	18	182.84	199	107	50
H13							RS100-1B18T-S75 □□ B	K					
H13	4173	4174	4175	4176	4177	4178	RS100-1B19T-S612 □□ B	K	19	192.90	209	107	50
H13							RS100-1B19T-S75 □□ B	K					
H13	4179	4180	4181	4182	4183	4184	RS100-1B20T-S612 □□ B	K	20	202.96	220	107	50
H13							RS100-1B20T-S75 □□ B	K					
H13	4185	4186	4187	4188	4189	4190	RS100-1B21T-S612 □□ B	K	21	213.03	230	107	50
H13							RS100-1B21T-S75 □□ B	K					

<Time for delivery> All products will be produced in three days.

RS100 Lock Sprocket

List of Permissible Transmission Torque Values (Unit: N·m)

Bore dia.	48	50	55	60	65	70
No. of teeth						
13T						
14T						
15T	1488	1550	1705			
16T						
17T						
18T						
19T	2232	2325	2257	2140	2319	2497
20T						
21T						

Lock Series (with Tightening Device) N Type

Applicable models: RS35 through RS60 Sprockets of 1B Type
RS sprockets can be mounted to shafts without using keys.



● Features

1. A great increase in work efficiency

Unlike conventional products that require a number of tightening bolts, this product can be simply tightened with a nut and coupled to a shaft with ease. Furthermore, the product can be dismantled for fine-adjustment and mounted again with ease.

2. Suitable to small shaft diameters

Standard models with diameters ranging from 7 to 28 mm respond to a wide variety of customer needs.

3. Compact design

This product of compact construction was designed with redundancy eliminated as much as possible after a strength calculation was made with the maximum permissible tension of applicable chains taken into consideration.

● General Precautions

1) Permissible transmission torque

Make sure that the load torque does not exceed the specified transmission torque in the dimension table.

2) Shaft diameter tolerance and surface roughness

Use a shaft diameter tolerance of h8 and a surface roughness degree of 12S as standards.

3) Mounting to shafts provided with keyways or to D-shaped shafts

The permissible transmission torque will decrease by 10% in the case of mounting the sprocket to a shaft provided with a finished keyway, such as a motor shaft, or to a D-shaped shaft.

4) Mounting to cold finished carbon steel bars

The permissible transmission torque will decrease by 10% in the case of mounting the sprocket to a cold finished carbon steel bar (extraction material with a permissible diameter class 8 through 10).

5) Make sure that the shaft material is a solid shaft with a grade of S35C or higher.

6) Operating temperature range: - 20°C to 200°C

7) Be sure to use a torque wrench to tighten each bolt. Do not tighten by hand or with an inaccurate method, such as the use of jointed pipes used, or otherwise the right transmission torque will not be obtained. Moreover, unexpected trouble may result. Be sure to use the torque wrench correctly by referring to the operation manual for the torque wrench.

● Ordering Information on Lock N Type ●

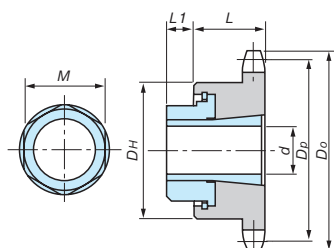
Place each order with the model number.

● Order example

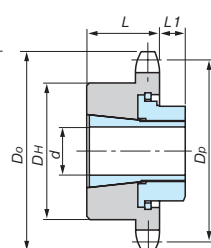
Model number	Quantity	Unit
RS40-1B21T-N417A	10	K(No. of units)

● Sleeve Mounting Type

Type A

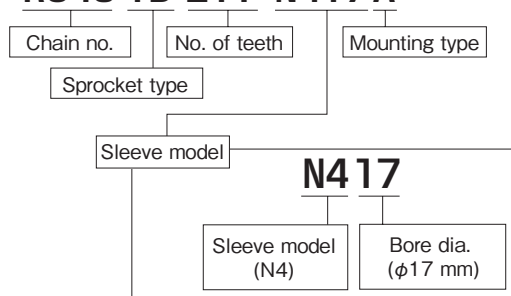


Type B



● Model No.

RS40 1B 21T N417A



RS35 Lock N Type

● Applicable chain pitch: 9.525 mm ● Roller dia.: 5.08 mm

All models are products with hardened teeth.

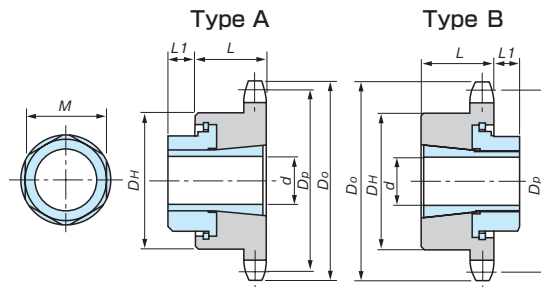
All models are products with hardened teeth																		
No. of teeth	Basic dimensions		Time for delivery	Hub		Bore dia. d Max. permissible transmission torque (N · m)	7	8	9	10	11	12	14	15	16	17	18	19
	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>		Dia. <i>D_H</i>	Length <i>L</i>		23	26	29	42	46	50	104	111	119	161	171	180
12	36.80	41	Produced in 3 days	31	20	Applicable sleeve no. and dimensions	※	※	※									
13	39.80	44		32	20		N1XX											
14	42.80	47		30	20					(Example)								
15	45.81	51		35	20													
16	48.82	54		37	20													
17	51.84	57		41	20													
18	54.85	60		44	20													
19	57.87	63		47	20													
20	60.89	66		50	20													
21	63.91	69		53	20													
22	66.93	72		53	20													
23	69.95	75		53	20													
24	72.97	78		53	22													
25	76.00	81		53	22													
26	79.02	84		53	22													
27	82.05	87		53	22													
28	85.07	90		53	22													
30	91.12	96	Produced in 3 days	53	22	Applicable sleeve no. and dimensions												
32	97.18	102		53	22													
34	103.23	109		53	22													
35	106.26	112		53	22													
36	109.29	115		53	22													
38	115.34	121	Produced in 3 days	63	25	Applicable sleeve no. and dimensions												
40	121.40	127		63	25													

Only type A is available to asterisk-marked models with 12T.

● Explanation for table

(Example) : Chain no. RS35, the required number of teeth is 15, and the required bore diameter is 11 mm.

The N211 sleeve will apply. The characters XX in the table refer to the bore diameter. The maximum transmission torque will be 46 N·m.



■ N type Lock Sleeve Dimensions

Sleeve no.	Sleeve extrusion L1	Nut width cross flat M	Nut tightening torque (N · m)
N1	5	18	18
N2	6	22	28
N3	8	30	65
N4	10	36	100
N5	11	41	130
N6	11	46	200

RS40 Lock N Type

● Applicable chain pitch: 12.7 mm ● Roller dia.: 7.92 mm

All models are products with hardened teeth.

No. of teeth	Basic dimensions		Time for delivery	Hub		Bore dia. d Max. permissible transmission torque (N · m)	10	11	12	14	15	16	17	18	19	20	22	24														
	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>		Dia. <i>D_H</i>	Length <i>L</i>		42	46	50																							
11	45.08	51	Produced in 3 days	37	22	Applicable sleeve no. and dimensions	※	※	※																							
12	49.07	55		40	22		※	※	※																							
13	53.07	59		37	22		N2XX																									
14	57.07	63		42	22																											
15	61.08	67		46	22																											
16	65.10	71		50	22																											
17	69.12	76		54	22																											
18	73.14	80		57	22																											
19	77.16	84		62	22															N3XX												
20	81.18	88		67	25																											
21	85.21	92		71	25																N4XX											
22	89.24	96		75	25																											
23	93.27	100		77	25																											
24	97.30	104		63	25																											
25	101.33	108		63	25																											
26	105.36	112		63	25																											
27	109.40	116		63	25																											
28	113.43	120		63	25																											
30	121.50	128		63	25																											
32	129.57	137		68	28																											
34	137.64	145		68	28																											
35	141.68	149		68	28																											
36	145.72	153		68	28																											
38	153.79	161		68	28																											
40	161.87	169		68	28																											

Only type A is available to asterisk-marked models with 11T and 12T.

RS50 Lock N Type

● Applicable chain pitch: 15.875 mm ● Roller dia.: 10.16 mm

All models are products with hardened teeth.

No. of teeth	Basic dimensions		Time for delivery	Hub		Bore dia. d Max. permissible transmission torque (N · m)	14	15	16	17	18	19	20	22	24
	Pitch circle dia. Dp	Outer dia. Do		Dia. DH	Length L		104	111	119	161	171	180	214	236	257
11	56.35	64	Produced in 3 days	46	25	Applicable sleeve no. and dimensions	*	*	*						
12	61.34	69		51	25		*	*	*						
13	66.33	74		51	25		N3XX			*	*	*			
14	71.34	79		52	25					*	*	*			
15	76.35	84		57	25					*	*	*			
16	81.37	89		62	25					N4XX					
17	86.39	94		67	25										
18	91.42	100		72	28										
19	96.45	105		73	28										
20	101.48	110		73	28								N5XX		
21	106.51	115		73	28										
22	111.55	120		73	28										
23	116.59	125		73	28										
24	121.62	130		73	28										
25	126.66	135		73	28										

Only type A is available to asterisk-marked models with 11T, 12T, and 13T.

RS60 Lock N Type

● Applicable chain pitch: 19.05 mm ● Roller dia.: 11.91 mm

All models are products with hardened teeth.

No. of teeth	Basic dimensions		Time for delivery	Hub		Bore dia. d	14	15	16	17	18	19	20	22	24	25	26	28										
	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>		Dia.	Length	Max. permissible transmission torque (N · m)	104	111	119	161	171	180	214	236	257	370	385	415										
				<i>D_H</i>	<i>L</i>																							
9	55.70	64	Produced in 3 days	43	32	Applicable sleeve no. and dimensions	※	※	※																			
10	61.65	70		49	32		※	※	※																			
11	67.62	76		51	32		N3XX				※	※	※															
12	73.60	83		51	32																							
13	79.60	89		57	32																							
14	85.61	95		62	32																							
15	91.63	101		68	32																							
16	97.65	107		73	32		N4XX																					
17	103.67	113		73	32																							
18	109.70	119		83	40																							
19	115.74	126		83	40																							
20	121.78	132		83	40																							
21	127.82	138		83	40		N5XX																					
22	133.86	144		83	40																							
23	139.90	150		83	40																							
24	145.95	156		83	40																							
25	151.99	162		83	40																							

Only type A is available to asterisk-marked models with 9T, 10T, and 11T.

RS Sprocket Environmentally-resistant Series

Products made of excellent corrosion-resistant stainless steel with pilot bore and those made of engineering plastics that can be operated with no lubrication.



■ Stainless Steel with Pilot bore

Products made of excellent corrosion-resistant stainless steel. These products ensure excellent heat resistance as well, thus making it possible to use the products under special low- or high-temperature environments.

TSUBAKI has a stock of single-strand sprockets of 1B type (single-hub type) for chain sizes ranging from RS11 to RS80.



■ Engineering Plastics with Pilot bore

Products made of special MC901 nylon (dark blue). These products are operable without lubrication.

Chain speeds not exceeding 70 m/minute are recommended. The products, however, are available to a maximum speed of 150 m/minute if lubricated in advance.

TSUBAKI as a stock of single-strand sprockets of 1B type (single-hub type) for chain sizes ranging from RS35 to RS60 (but not all single-strand sprocket models are in stock).

● Ordering Information on Environmentally-resistant Series of RS Sprockets ●

Place each order with the product code and model number.

● Order example

(Stainless Steel)

Product code	Model number	Quantity	Unit
H140001	RS25-1B10T-SS	10	K(No. of units)

(Engineering Plastics)

Product code	Model number	Quantity	Unit
H140157	RS35-1B13T-P	10	K(No. of units)

● Model No.

RS35 - 1B 13T ☐

Chain no.	No. of teeth	Hub type (1B: Single hub only)	Specifications Stainless steel: -SS Engineering plastics: -P
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Corrosion Resistance of Environmentally-resistant Sprockets

The corrosion resistance of environmentally-resistant sprockets varies with the operating conditions. TSUBAKI does not guarantee the corrosion resistance characteristics shown in the following table. Use the information on the table only for reference, and check the corrosion resistance of the sprockets under actual operating conditions before determining the models.

P : Engineering plastics SS : Stainless steel

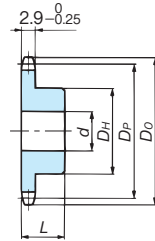
Chemical and Food	P	SS	Chemical and Food	P	SS	Chemical and Food	P	SS	Chemical and Food	P	SS
Acetone 20°C	○	○	Pernanganic acid potassium (Saturated) 20°C	×	○	Beer 20°C	○	○	Potassium nitrate 25% 20°C	○	○
Oil (Vegetable oil and mineral oil) 20°C	○	○	Formic acid 50% 20°C	×	○	Picric acid (Saturated) 20°C	—	○	Potassium nitrate (Boiling point) 25%	○	○
Linseed oil 100% 20°C	○	○	Milk 20°C	○	○	Fruit juice 20°C	○	○	Vinegar 20°C	○	○
Sulfurous acid gas (Permeated) 20°C	—	○	Citrate 50% 20°C	○	○	Benzene 20°C	○	○	Potassium hydroxide (Caustic potash) 20% 20°C	—	○
Alcohol (Methyl, ethyl, propyl, and butyl) 20°C	○	○	Glycerin 20°C	○	○	Boric acid 50% 100°C	—	○	Calcium hydroxide (Slaked lime)(Boiling point) 20%	○	○
Ammonia solution 20°C	○	○	Creosote 20°C	—	○	Formalin (Formaldehyde) 40% 20°C	△	○	Sodium hydroxide (Caustic soda) 25% 20°C	○	○
Whiskey 20°C	○	○	Chromic acid 5% 20°C	×	○	Mayonnaise 20°C	○	○	Stearic acid (Boiling point) 100%	○	○
Ether (Ethyl ether) 20°C	○	○	Catsup 20°C	○	○	Water	○	○	Soft drink 20°C	○	○
Zinc chloride 50% 20°C	×	△	Developing solution (Photograph) 20°C	○	○	Vegetable juice 20°C	○	○	Carbolic acid 20°C	×	○
Ammonium chloride (Boiling point) 50%	—	△	Synthetic detergent	○	○	Lard	—	○	Petroleum 20°C	—	○
Potassium chloride (Saturated) 20°C	○	○	Coffee (Boiling point)	○	○	Butyric acid 20°C	○	○	Soapsuds 20°C	○	○
Calcium chloride (Saturated) 20°C	○	△	Cola syrup	○	○	Hydrogen sulfide (Dry)	○	○	Carbonated water	—	○
Ferric chloride 5% 20°C	×	△	Acetic acid 10% 20°C	△	○	Hydrogen sulfide (Permeated)	—	×	Sodium bicarbonate 20°C	○	○
Sodium chloride 5% 20°C	○	○	Sugar solution 20°C	○	○	Sulfuric acid 5% 20°C	×	×	Sodium carbonate (Saturated) (Boiling point)	×	○
Hydrochloric acid 2% 20°C	×	×	Calcium hypochlorite (Bleach) 20°C	△	○	Zinc sulfate (Saturated) 20°C	—	○	Sodium subsulfite (Boiling point) 25%	○	○
Gaseous chlorine (Dry) 20°C	×	△	Sodium hypochlorite 10% 20°C	△	×	Aluminum sulfate (Saturated) 20°C	—	○	Turpentine 35°C	×	○
Gaseous chlorine (Permeated) 20°C	×	×	Sodium cyanide 20°C	—	○	Ammonium sulfate (Saturated) 20°C	—	○	Kerosene 20°C	×	○
Chlorine water	×	×	Carbon tetrachloride (Dry) 20°C	○	○	Sodium sulfate (Saturated) 20°C	—	○	Varnish	×	○
Oleic acid 20°C	○	○	Potassium dichromate 10% 20°C	○	○	Malic acid 50% 50°C	○	○	Concentrated nitric 65% 20°C	×	○
Seawater 20°C	○	△	Oxalic acid 10% 20°C	○	○	Phosphoric acid 5% 20°C	×	○	Concentrated nitric (Boiling point) 65%	○	○
Sodium perchlorate 10%	—	○	Tartaric acid 10% 20°C	○	○	Phosphoric acid 10% 20°C	×	△	Lactic acid 10% 20°C	○	○
Hydrogen peroxide 30% 20°C	×	○	Nitric acid 5% 20°C	×	○	Wine 20°C	○	○	Honey and syrup	—	○
Gasoline 20°C	○	○	Ammonium nitrate (Boiling point)	○	○				Paraffin 20°C	×	○

○ : Sufficiently corrosive resistant △ : Corrosive resistant depending on operating conditions × : Not corrosive resistant — : Unknown

■ RS11 pilot bore models made of stainless steel are classified as standard-series models. (See page 8.)

■ RS25 1B Type Stainless Steel with Pilot bore

RS25 : Applicable chain pitch: 6.35 mm Roller dia.: 3.3 mm

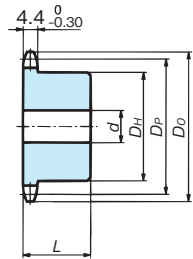
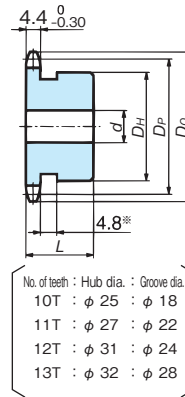


■ RS35 1B Type Stainless Steel with Pilot bore

RS35 : Applicable chain pitch: 9.525 mm Roller dia.: 5.08 mm

Hub with groove
(No. of teeth: 10T to 13T)

Hub without groove
(No. of teeth: 14T and over)



No. of teeth : Hub dia. : Groove dia.
10T : ϕ 25 : ϕ 18
11T : ϕ 27 : ϕ 22
12T : ϕ 31 : ϕ 24
13T : ϕ 32 : ϕ 28

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

■ RS25 1B Type Stainless Steel with Pilot bore

Product code	Model number	No. of teeth	Pitch circle dia. D_P	Outer dia. D_O	Bore dia. d Pilot bore	Max.	Hub Dia. D_H Length L		Approx. mass (kg)	Time for delivery
H140001	RS25-1B10T-SS	10	20.55	23	6	9	14	15	0.02	⊙
H140002	RS25-1B11T-SS	11	22.54	25	6	10	16	15	0.03	⊙
H140003	RS25-1B12T-SS	12	24.53	28	6	11	18	15	0.04	⊙
H140004	RS25-1B13T-SS	13	26.53	30	6	12	20	15	0.05	⊙
H140005	RS25-1B14T-SS	14	28.54	32	6	12	20	15	0.06	⊙
H140006	RS25-1B15T-SS	15	30.54	34	6	12	20	20	0.07	⊙
H140007	RS25-1B16T-SS	16	32.55	36	8	15	25	20	0.08	⊙
H140008	RS25-1B17T-SS	17	34.56	38	8	15	25	20	0.09	⊙
H140009	RS25-1B18T-SS	18	36.57	40	8	15	25	20	0.10	⊙
H140010	RS25-1B19T-SS	19	38.58	42	8	15	25	20	0.10	⊙
H140011	RS25-1B20T-SS	20	40.59	44	8	15	25	20	0.10	⊙
H140012	RS25-1B21T-SS	21	42.61	46	10	18	30	20	0.12	⊙
H140013	RS25-1B22T-SS	22	44.62	48	10	18	30	20	0.13	⊙
H140014	RS25-1B23T-SS	23	46.63	50	10	18	30	20	0.13	⊙
H140015	RS25-1B24T-SS	24	48.65	52	10	21	35	20	0.15	⊙
H140016	RS25-1B25T-SS	25	50.66	54	10	21	35	20	0.16	⊙
H140017	RS25-1B26T-SS	26	52.68	56	10	25	40	20	0.17	⊙
H140018	RS25-1B27T-SS	27	54.70	58	10	25	40	20	0.20	⊙
H140019	RS25-1B28T-SS	28	56.71	60	10	25	40	20	0.21	⊙
H140020	RS25-1B30T-SS	30	60.75	64	12	28	45	20	0.23	⊙
H140021	RS25-1B32T-SS	32	64.78	68	12	31	50	20	0.40	⊙
H140022	RS25-1B34T-SS	34	68.82	72	12	31	50	20	0.41	⊙
H140023	RS25-1B35T-SS	35	70.84	74	12	31	50	20	0.41	⊙
H140024	RS25-1B36T-SS	36	72.86	76	12	31	50	20	0.42	⊙
H140025	RS25-1B38T-SS	38	76.90	80	12	31	50	22	0.43	⊙
H140026	RS25-1B40T-SS	40	80.93	84	12	31	50	22	0.45	⊙
Material and specifications		Machined stainless steel								

Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ○ = In stock

■ RS35 1B Type Stainless Steel with Pilot bore

Product code	Model number	No. of teeth	Pitch circle dia.	Outer dia.	Bore dia. d		Hub		Approx. mass (kg)	Time for delivery
			D_P	D_o	Pilot bore	Max.	Dia. D_H	Length L		
H140027	RS35-1B10T-SS	10	30.82	35	8	12	25	20	0.08	⊙
H140028	RS35-1B11T-SS	11	33.81	38	8	14	27	20	0.09	⊙
H140029	RS35-1B12T-SS	12	36.80	41	8	16.5	31	20	0.12	⊙
H140030	RS35-1B13T-SS	13	39.80	44	9.5	18	32	20	0.12	⊙
H140031	RS35-1B14T-SS	14	42.80	47	9.5	16.5	30	20	0.12	⊙
H140032	RS35-1B15T-SS	15	45.81	51	9.5	19	35	20	0.16	⊙
H140033	RS35-1B16T-SS	16	48.82	54	9.5	20	37	20	0.19	⊙
H140034	RS35-1B17T-SS	17	51.84	57	9.5	24	41	20	0.22	⊙
H140035	RS35-1B18T-SS	18	54.85	60	9.5	24.5	44	20	0.25	⊙
H140036	RS35-1B19T-SS	19	57.87	63	9.5	28.5	47	20	0.28	⊙
H140037	RS35-1B20T-SS	20	60.89	66	9.5	30	50	20	0.32	⊙
H140038	RS35-1B21T-SS	21	63.91	69	9.5	32	53	20	0.36	⊙
H140039	RS35-1B22T-SS	22	66.93	72	9.5	32	53	20	0.37	⊙
H140040	RS35-1B23T-SS	23	69.95	75	9.5	32	53	20	0.40	⊙
H140041	RS35-1B24T-SS	24	72.97	78	9.5	32	53	22	0.43	⊙
H140042	RS35-1B25T-SS	25	76.00	81	12.7	32	53	22	0.44	⊙
H140043	RS35-1B26T-SS	26	79.02	84	12.7	32	53	22	0.45	⊙
H140044	RS35-1B27T-SS	27	82.05	87	12.7	32	53	22	0.46	⊙
H140045	RS35-1B28T-SS	28	85.07	90	12.7	32	53	22	0.48	⊙
H140046	RS35-1B30T-SS	30	91.12	96	12.7	32	53	22	0.51	⊙
H140047	RS35-1B32T-SS	32	97.18	102	12.7	32	53	22	0.54	⊙
H140048	RS35-1B34T-SS	34	103.23	109	12.7	32	53	22	0.57	⊙
H140049	RS35-1B35T-SS	35	106.26	112	12.7	32	53	22	0.59	⊙
H140050	RS35-1B36T-SS	36	109.29	115	12.7	32	53	22	0.61	⊙
H140051	RS35-1B38T-SS	38	115.34	121	13	42	63	25	0.82	⊙
H140052	RS35-1B40T-SS	40	121.40	127	13	42	63	25	0.85	⊙
Material and specifications			Machined stainless steel							

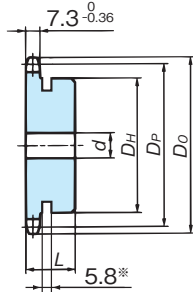
Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ○ = In stock

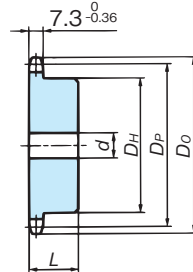
RS40 1B Type Stainless Steel with Pilot bore

RS40 : Applicable chain pitch: 12.70 mm Roller dia.: 7.92 mm

Hub with groove
(No. of teeth: 10T to 12T)



Hub without groove
(No. of teeth: 13T and over)



No. of teeth	Hub dia.	Groove dia.
10T	φ 32	φ 25
11T	φ 37	φ 30
12T	φ 40	φ 32

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

RS40 1B Type Stainless Steel with Pilot bore

Product code	Model number	No. of teeth	Pitch circle dia. DP	Outer dia. D0	Bore dia. d	Hub Dia. DH	Length L	Approx. mass (kg)	Time for delivery
H140053	RS40-1B10T-SS	10	41.10	47	9.5	16.5	32	0.14	○
H140054	RS40-1B11T-SS	11	45.08	51	9.5	20	37	0.19	○
H140055	RS40-1B12T-SS	12	49.07	55	9.5	22	40	0.22	○
H140056	RS40-1B13T-SS	13	53.07	59	9.5	20	37	0.23	○
H140057	RS40-1B14T-SS	14	57.07	63	9.5	24	42	0.28	○
H140058	RS40-1B15T-SS	15	61.08	67	9.5	28.5	46	0.34	○
H140059	RS40-1B16T-SS	16	65.10	71	12.7	30	50	0.40	○
H140060	RS40-1B17T-SS	17	69.12	76	12.7	32	54	0.46	○
H140061	RS40-1B18T-SS	18	73.14	80	12.7	35	57	0.51	○
H140062	RS40-1B19T-SS	19	77.16	84	12.7	39.5	62	0.59	○
H140063	RS40-1B20T-SS	20	81.18	88	12.7	45.5	67	0.76	○
H140064	RS40-1B21T-SS	21	85.21	92	12.7	45.5	71	0.85	○
H140065	RS40-1B22T-SS	22	89.24	96	12.7	50	75	0.95	○
H140066	RS40-1B23T-SS	23	93.27	100	12.7	50	77	1.0	○
H140067	RS40-1B24T-SS	24	97.30	104	12.7	42	63	0.84	○
H140068	RS40-1B25T-SS	25	101.33	108	12.7	42	63	0.88	○
H140069	RS40-1B26T-SS	26	105.36	112	12.7	42	63	0.92	○
H140070	RS40-1B27T-SS	27	109.40	116	12.7	42	63	0.96	○
H140071	RS40-1B28T-SS	28	113.43	120	12.7	42	63	1.0	○
H140072	RS40-1B30T-SS	30	121.50	128	12.7	42	63	1.1	○
H140073	RS40-1B32T-SS	32	129.57	137	16	45	68	1.3	○
H140074	RS40-1B34T-SS	34	137.64	145	16	45	68	1.3	○
H140075	RS40-1B35T-SS	35	141.68	149	16	45	68	1.4	○
H140076	RS40-1B36T-SS	36	145.72	153	16	45	68	1.4	○
H140077	RS40-1B38T-SS	38	153.79	161	16	45	68	1.5	○
H140078	RS40-1B40T-SS	40	161.87	169	16	45	68	1.6	○
Material and specifications		Machined stainless steel							

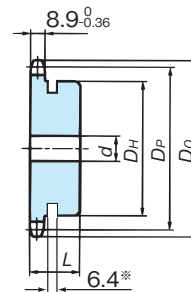
Consult your TSUBAKI representative for the numbers of teeth other than the above.

◯ (Time for delivery) ◯ = In stock

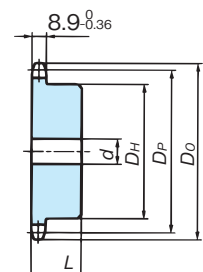
RS50 1B Type Stainless Steel with Pilot bore

RS50 : Applicable chain pitch: 15.875 mm Roller dia. : 10.16 mm

Hub with groove
(No. of teeth: 10T to 13T)



Hub without groove
(No. of teeth: 14T to 40T)



No. of teeth	Hub dia.	Groove dia.
10T	φ 40	φ 32
11T	φ 46	φ 37
12T	φ 51	φ 42
13T	φ 51	φ 47

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

RS50 1B Type Stainless Steel with Pilot bore

Product code	Model number	No. of teeth	Pitch circle dia. DP	Outer dia. D0	Bore dia. d	Hub Dia. DH	Length L	Approx. mass (kg)	Time for delivery
H140079	RS50-1B10T-SS	10	51.37	58	9.5	22	40	0.27	○
H140080	RS50-1B11T-SS	11	56.35	64	12.7	25	46	0.33	○
H140081	RS50-1B12T-SS	12	61.34	69	12.7	32	51	0.41	○
H140082	RS50-1B13T-SS	13	66.33	74	12.7	32	51	0.46	○
H140083	RS50-1B14T-SS	14	71.34	79	12.7	32	52	0.52	○
H140084	RS50-1B15T-SS	15	76.35	84	12.7	35	57	0.62	○
H140085	RS50-1B16T-SS	16	81.37	89	12.7	40	62	0.72	○
H140086	RS50-1B17T-SS	17	86.39	94	12.7	45.5	67	0.83	○
H140087	RS50-1B18T-SS	18	91.42	100	12.7	47.5	72	1.0	○
H140088	RS50-1B19T-SS	19	96.45	105	12.7	47.5	73	1.1	○
H140089	RS50-1B20T-SS	20	101.48	110	12.7	47.5	73	1.2	○
H140090	RS50-1B21T-SS	21	106.51	115	15.9	47.5	73	1.2	○
H140091	RS50-1B22T-SS	22	111.55	120	15.9	47.5	73	1.3	○
H140092	RS50-1B23T-SS	23	116.59	125	15.9	47.5	73	1.3	○
H140093	RS50-1B24T-SS	24	121.62	130	15.9	47.5	73	1.4	○
H140094	RS50-1B25T-SS	25	126.66	135	15.9	47.5	73	1.5	○
H140095	RS50-1B26T-SS	26	131.70	140	18	48	73	1.5	○
H140096	RS50-1B27T-SS	27	136.74	145	18	48	73	1.5	○
H140097	RS50-1B28T-SS	28	141.79	150	18	48	73	1.6	○
H140098	RS50-1B30T-SS	30	151.87	161	18	48	73	1.8	○
H140099	RS50-1B32T-SS	32	161.96	171	18	48	73	1.9	○
H140100	RS50-1B34T-SS	34	172.05	181	18	48	73	2.1	○
H140101	RS50-1B35T-SS	35	177.10	186	18	48	73	2.2	○
H140102	RS50-1B36T-SS	36	182.15	191	23	55	83	2.7	○
H140103	RS50-1B38T-SS	38	192.24	201	23	55	83	2.9	○
H140104	RS50-1B40T-SS	40	202.33	211	23	55	83	3.1	○
Material and specifications		Machined stainless steel							

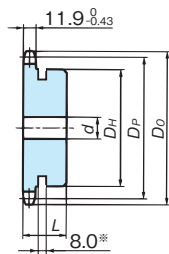
Consult your TSUBAKI representative for the numbers of teeth other than the above.

◯ (Time for delivery) ◯ = In stock

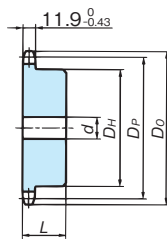
RS60 1B Type Stainless Steel with Pilot bore

RS60 : Applicable chain pitch: 19.05 mm Roller dia.: 11.91 mm

Hub with groove
(No. of teeth: 10T to 11T)



Hub without groove
(No. of teeth: 12T to 30T)



No. of teeth : Hub dia. : Groove dia.
10T : φ 49 : φ 37
11T : φ 51 : φ 45

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

RS60 1B Type Stainless Steel with Pilot bore

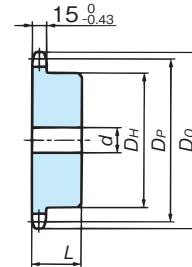
Product code	Model number	No. of teeth	Pitch circle dia. D_P	Outer dia. D_O	Bore dia. d Pilot bore Max.	Hub Dia. D_H Length L	Approx. mass (kg)	Time for delivery
H140105	RS60-1B10T-SS	10	61.65	70	12.7 30	49 32	0.49	○
H140106	RS60-1B11T-SS	11	67.62	76	12.7 32	51 32	0.60	○
H140107	RS60-1B12T-SS	12	73.60	83	12.7 32	51 32	0.69	○
H140108	RS60-1B13T-SS	13	79.60	89	15.9 35	57 32	0.81	○
H140109	RS60-1B14T-SS	14	85.61	95	15.9 39.5	62 32	0.96	○
H140110	RS60-1B15T-SS	15	91.63	101	15.9 45.5	68 32	1.1	○
H140111	RS60-1B16T-SS	16	97.65	107	15.9 47.5	73 32	1.3	○
H140112	RS60-1B17T-SS	17	103.67	113	15.9 47.5	73 32	1.4	○
H140113	RS60-1B18T-SS	18	109.70	119	15.9 55	83 40	2.0	○
H140114	RS60-1B19T-SS	19	115.74	126	15.9 55	83 40	2.1	○
H140115	RS60-1B20T-SS	20	121.78	132	15.9 55	83 40	2.2	○
H140116	RS60-1B21T-SS	21	127.82	138	15.9 55	83 40	2.3	○
H140117	RS60-1B22T-SS	22	133.86	144	15.9 55	83 40	2.5	○
H140118	RS60-1B23T-SS	23	139.90	150	18 55	83 40	2.5	○
H140119	RS60-1B24T-SS	24	145.95	156	18 55	83 40	2.6	○
H140120	RS60-1B25T-SS	25	151.99	162	18 55	83 40	2.7	○
H140121	RS60-1B26T-SS	26	158.04	168	18 55	83 40	2.9	○
H140122	RS60-1B27T-SS	27	164.09	174	18 55	83 40	3.0	○
H140123	RS60-1B28T-SS	28	170.14	180	18 55	83 40	3.1	○
H140124	RS60-1B30T-SS	30	182.25	193	18 55	83 40	3.4	○
Material and specifications		Machined stainless steel						

Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ○ = In stock

RS80 1B Type Stainless Steel with Pilot bore

RS80 : Applicable chain pitch: 25.40 mm Roller dia.: 15.88 mm



RS80 1B Type Stainless Steel with Pilot bore

Product code	Model number	No. of teeth	Pitch circle dia. D_P	Outer dia. D_O	Bore dia. d Pilot bore Max.	Hub Dia. D_H Length L	Approx. mass (kg)	Time for delivery
H140131	RS80-1B10T-SS	10	82.20	93	15.9 32	52 40	0.97	○
H140132	RS80-1B11T-SS	11	90.16	102	15.9 38	60 40	1.2	○
H140133	RS80-1B12T-SS	12	98.14	110	19 45	67 40	1.5	○
H140134	RS80-1B13T-SS	13	106.14	118	19 50	77 40	1.9	○
H140135	RS80-1B14T-SS	14	114.15	127	19 50	77 40	2.0	○
H140136	RS80-1B15T-SS	15	122.17	135	19 63	93 40	2.6	○
H140137	RS80-1B16T-SS	16	130.20	143	19 63	93 40	2.8	○
H140138	RS80-1B17T-SS	17	138.23	151	19 63	93 40	3.0	○
H140139	RS80-1B18T-SS	18	146.27	159	19 63	93 40	3.2	○
H140140	RS80-1B19T-SS	19	154.32	167	23 63	93 40	3.4	○
H140141	RS80-1B20T-SS	20	162.37	176	23 63	93 40	3.6	○
H140142	RS80-1B21T-SS	21	170.42	184	23 63	93 40	3.8	○
H140143	RS80-1B22T-SS	22	178.48	192	28 75	107 45	4.8	○
H140144	RS80-1B23T-SS	23	186.54	200	28 75	107 45	5.1	○
H140145	RS80-1B24T-SS	24	194.60	208	28 75	107 45	5.4	○
H140146	RS80-1B25T-SS	25	202.66	216	28 75	107 45	5.6	○
Material and specifications		Machined stainless steel						

Consult your TSUBAKI representative for the numbers of teeth other than the above.

〈Time for delivery〉 ○ = In stock

Environmentally-resistant Series (Engineering Plastics) with Pilot bore

Operating Conditions

Operating temperature: -10°C to 60°C

Permissible peripheral speed: Speeds not exceeding 70 m/minute are recommended (with no lubrication)

(The product, however, is available to a maximum speed of 150 m/minute if lubricated in advance.)

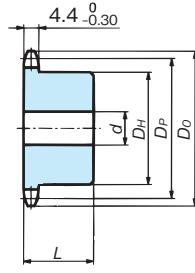
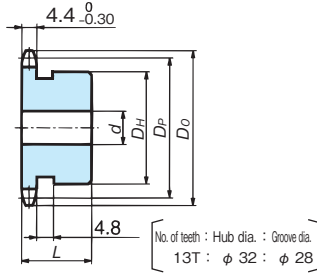
Material: Special MC901 (dark blue)



RS35 Engineering Plastics with Pilot bore

Hub with groove (No. of teeth: 13T)

Hub without groove (No. of teeth: 14T and over)



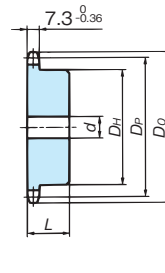
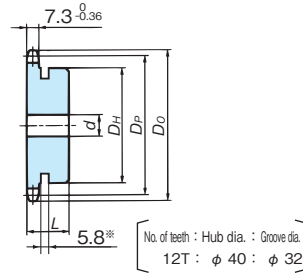
Product code	Model number	No. of teeth	Permissible transmission torque N · m	Pitch circle dia. D _P	(Outer dia.) (D _O)	Bore dia. d		Hub		Approx. mass (kg)
						Pilot bore	Max.	Dia. D _H	Length L	
H140157	RS35-1B13T-P	13	5.30	39.80	44	9.5	14	32	20	0.02
H140158	RS35-1B14T-P	14	5.69	42.80	46	9.5	15	30	20	0.02
H140159	RS35-1B15T-P	15	6.08	45.81	51	9.5	17	35	20	0.02
H140160	RS35-1B16T-P	16	6.47	48.82	53	9.5	19	37	20	0.03
H140161	RS35-1B17T-P	17	6.86	51.84	57	9.5	22	41	20	0.03
H140162	RS35-1B18T-P	18	7.26	54.85	60	12.7	22	44	20	0.04
H140163	RS35-1B20T-P	20	8.04	60.89	66	12.7	27	50	20	0.05
H140164	RS35-1B22T-P	22	8.83	66.93	72	12.7	28	53	20	0.06
H140165	RS35-1B24T-P	24	9.71	72.97	78	12.7	32	53	22	0.08
H140166	RS35-1B25T-P	25	10.1	76.00	81	12.7	32	53	22	0.08
H140167	RS35-1B26T-P	26	10.5	79.02	83	12.7	35	53	22	0.09
H140168	RS35-1B28T-P	28	11.3	85.07	90	12.7	40	53	22	0.10
H140169	RS35-1B30T-P	30	12.1	91.12	96	12.7	42	53	22	0.12

Note: Products shown in bold characters are in stock. Those in normal characters are made to order.

RS40 Engineering Plastics with Pilot bore

Hub with groove (No. of teeth: 12T)

Hub without groove (No. of teeth: 13T and over)



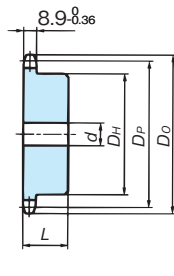
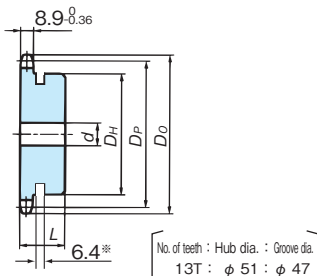
Product code	Model number	No. of teeth	Permissible transmission torque N · m	Pitch circle dia. D _P	(Outer dia.) (D _O)	Bore dia. d		Hub		Approx. mass (kg)
						Pilot bore	Max.	Dia. D _H	Length L	
H140170	RS40-1B12T-P	12	10.8	49.07	53	9.5	16	40	22	0.03
H140171	RS40-1B13T-P	13	11.7	53.07	58	12.7	18	37	22	0.04
H140172	RS40-1B14T-P	14	12.6	57.07	63	12.7	22	42	22	0.04
H140173	RS40-1B15T-P	15	13.4	61.08	67	12.7	25	46	22	0.05
H140174	RS40-1B16T-P	16	14.3	65.10	71	12.7	27	50	22	0.06
H140175	RS40-1B17T-P	17	15.3	69.12	75	12.7	28	54	22	0.07
H140176	RS40-1B18T-P	18	16.2	73.14	78	12.7	30	57	22	0.08
H140177	RS40-1B20T-P	20	17.9	81.18	88	12.7	35	67	25	0.11
H140178	RS40-1B22T-P	22	19.6	89.24	96	12.7	42	75	25	0.14
H140179	RS40-1B24T-P	24	21.5	97.30	104	12.7	50	80	25	0.16
H140180	RS40-1B25T-P	25	22.4	101.33	108	12.7	50	80	25	0.17
H140181	RS40-1B26T-P	26	23.2	105.36	112	12.7	52	85	25	0.18
H140182	RS40-1B28T-P	28	25.0	113.43	120	12.7	55	90	25	0.21
H140183	RS40-1B30T-P	30	26.8	121.50	128	12.7	60	100	25	0.26

Note: Products shown in bold characters are in stock. Those in normal characters are made to order.

RS50 Engineering Plastics with Pilot bore

Hub with groove (No. of teeth: 13T)

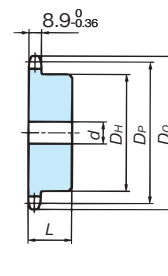
Hub without groove (No. of teeth: 14T and over)



Product code	Model number	No. of teeth	Permissible transmission torque N · m	Pitch circle dia. D _P	(Outer dia.) (D _O)	Bore dia. d		Hub		Approx. mass (kg)
						Pilot bore	Max.	Dia. D _H	Length L	
H140184	RS50-1B13T-P	13	22.8	66.34	73	12.7	25	51	25	0.07
H140185	RS50-1B14T-P	14	24.5	71.34	78	12.7	28	52	25	0.08
H140186	RS50-1B15T-P	15	26.2	76.35	83	12.7	30	57	25	0.09
H140187	RS50-1B16T-P	16	27.9	81.37	89	12.7	32	62	25	0.11
H140188	RS50-1B17T-P	17	29.6	86.39	93	12.7	35	67	25	0.12
H140189	RS50-1B18T-P	18	31.4	91.42	98	12.7	40	72	28	0.15
H140190	RS50-1B20T-P	20	34.8	101.48	110	15.9	50	80	28	0.20
H140191	RS50-1B22T-P	22	38.2	111.55	120	15.9	55	90	28	0.24
H140192	RS50-1B24T-P	24	41.8	121.62	130	15.9	60	100	28	0.29
H140193	RS50-1B25T-P	25	43.4	126.66	135	15.9	60	100	28	0.31
H140194	RS50-1B26T-P	26	45.2	131.70	140	18	65	110	28	0.34
H140195	RS50-1B28T-P	28	48.6	141.79	150	18	70	120	28	0.40
H140196	RS50-1B30T-P	30	52.2	151.87	161	18	70	120	28	0.43

Note: Products shown in bold characters are in stock. Those in normal characters are made to order.

RS60 Engineering Plastics with Pilot bore



Product code	Model number	No. of teeth	Permissible transmission torque N · m	Pitch circle dia. D _P	(Outer dia.) (D _O)	Bore dia. d		Hub		Approx. mass (kg)
						Pilot bore	Max.	Dia. D _H	Length L	
H140197	RS60-1B13T-P	13	41.0	79.60	88	15.9	30	57	32	0.12
H140198	RS60-1B14T-P	14	44.1	85.61	93	15.9	32	62	32	0.14
H140199	RS60-1B15T-P	15	47.2	91.62	99	15.9	35	68	32	0.16
H140200	RS60-1B16T-P	16	50.3	97.65	107	15.9	42	73	32	0.19
H140201	RS60-1B17T-P	17	53.3	103.67	113	15.9	50	80	32	0.21
H140202	RS60-1B18T-P	18	56.5	109.71	119	15.9	52	85	40	0.30
H140203	RS60-1B20T-P	20	62.7	121.78	132	15.9	60	95	40	0.38
H140204	RS60-1B22T-P	22	68.9	133.86	144	15.9	65	110	40	0.51
H140205	RS60-1B24T-P	24	75.1	145.95	156	18	70	120	40	0.57
H140206	RS60-1B25T-P	25	78.3	151.99	162	18	70	120	40	0.59
H140207	RS60-1B26T-P	26	81.4	158.04	168	18	70	120	40	0.62
H140208	RS60-1B28T-P	28	87.6	170.14	180	18	70	120	40	0.65
H140209	RS60-1B30T-P	30	93.8	182.25	193	18	70	120	40	0.70

Note: Products shown in bold characters are in stock. Those in normal characters are made to order.

RS Sprocket Environmentally-resistant Series Fit Bore



■ Stainless Fit Bore

Applicable models: RS25 through RS80 Stainless sprockets of 1B Type

Each model is provided with a finished bore, keyway and two setscrews (except the RS25, which is provided with a single setscrew but has no keyway.)

Used as it is without additional machining.

<Applicable bore processing specifications>

Applicable bore dia.: 06 to 65 mm Bore tolerance: H7

Keyway specifications: New JIS (JIS B1301-1996), parallel key of normal type

Keyway tolerance: Js9

(Only the RS25 has a bore tolerance of H8 with no keyway.)

● Ordering Information on Stainless Fit Bore ●

Place each order with the product code and model number.

● Order example

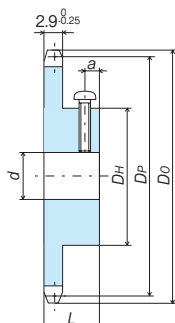
Product code	Model number	Quantity	Unit
H150001	RS25-1B10T-SS-H08	10	K (No. of units)

● Model No.

RS35-1B 10T-SS-H10 J

Chain no.	No. of teeth	Bore dia. (Finished tolerance: H7)
Hub type (1B: Single hub only)	Specifications: Stainless steel	Keyway tolerance (Js9)

■ RS25 Stainless Fit Bore



Model No.

RS25-1B10T-SS-H ☐ ☐

Bore dia.: Finished tolerance of H8
(Put 0 in front if the finished diameter is a single-digit value.)

Stainless steel: SS

No. of teeth

Hub type (1B: Single hub only)

Chain no.

<Setscrew Size>

Bore dia. <i>d</i>	Bolt size
06	M3
08~15	M4

Provided with a small Philips round head screw (Stainless)

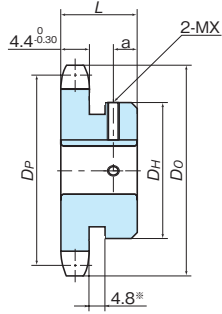
Specifications: Bore tolerance of H8 with no keyway and provided with one setscrew.

Product code	Model number	No. of teeth	Basic dimensions		Hub		Tap position <i>a</i>	Finished bore dia. <i>d</i> Tolerance H8			
			Pitch circle dia. <i>D_P</i>	(Outer dia.) <i>(D₀)</i>	Dia. <i>D_H</i>	Length <i>L</i>					
H15 0001	RS25-1B10T-SS-H ☐ ☐	10	20.55	23	14	15	5	06	08		
H15 0002	RS25-1B11T-SS-H ☐ ☐	11	22.54	25	16	15	5	06	08		
H15 0003	RS25-1B12T-SS-H ☐ ☐	12	24.53	28	18	15	5	06	08	10	
H15 0004	RS25-1B13T-SS-H ☐ ☐	13	26.53	30	20	15	5	06	08	10	
H15 0005	RS25-1B14T-SS-H ☐ ☐	14	28.54	32	20	15	5	06	08	10	
H15 0006	RS25-1B15T-SS-H ☐ ☐	15	30.54	34	20	20	7	06	08	10	
H15 0007	RS25-1B16T-SS-H ☐ ☐	16	32.55	36	25	20	7		08	10	
H15 0008	RS25-1B17T-SS-H ☐ ☐	17	34.56	38	25	20	7		08	10	
H15 0009	RS25-1B18T-SS-H ☐ ☐	18	36.57	40	25	20	7		08	10	
H15 0010	RS25-1B19T-SS-H ☐ ☐	19	38.58	42	25	20	7		08	10	
H15 0011	RS25-1B20T-SS-H ☐ ☐	20	40.59	44	25	20	7		08	10	
H15 0012	RS25-1B21T-SS-H ☐ ☐	21	42.61	46	30	20	7			10	12
H15 0013	RS25-1B22T-SS-H ☐ ☐	22	44.62	48	30	20	7			10	12
H15 0014	RS25-1B23T-SS-H ☐ ☐	23	46.63	50	30	20	7			10	12
H15 0015	RS25-1B24T-SS-H ☐ ☐	24	48.65	52	35	20	7			10	12
H15 0016	RS25-1B25T-SS-H ☐ ☐	25	50.66	54	35	20	7			10	12
H15 0017	RS25-1B26T-SS-H ☐ ☐	26	52.68	56	40	20	7			10	12
H15 0018	RS25-1B27T-SS-H ☐ ☐	27	54.70	58	40	20	7			10	12
H15 0019	RS25-1B28T-SS-H ☐ ☐	28	56.71	60	40	20	7			10	12
H15 0020	RS25-1B30T-SS-H ☐ ☐	30	60.75	64	45	20	7				15
H15 0021	RS25-1B32T-SS-H ☐ ☐	32	64.78	68	50	20	7				15

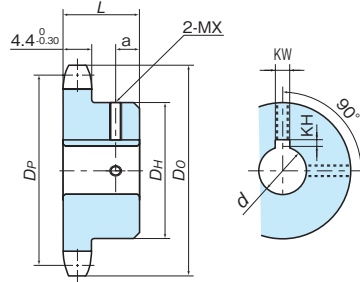
<Time for delivery> All products will be produced in three days.

RS35 Stainless Fit Bore

Hub with groove
(No. of teeth: 10T to 13T)



Hub without groove
(No. of teeth: 14T and over)



No. of teeth	Hub dia.	Groove dia.
10T	φ 25	φ 18
11T	φ 27	φ 22
12T	φ 31	φ 24
13T	φ 32	φ 28

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew size MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8				M8
More than 30 and up to 38	10	±0.0180	3.3		M8
More than 38 and up to 44	12				M10
More than 44 and up to 50	14	±0.0215	3.8	+0.2 0	
More than 50 and up to 58	16		4.3		
More than 58 and up to 65	18		4.4		

Provided with two stainless setscrews.

Model No.

RS35 - 1B 20T - SS - H □ □ J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
Stainless steel: SS
No. of teeth
Type
Chain no.

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Product code	Model number	No. of teeth	Basic dimensions		Hub		Tap position a	Finished bore dia. d											
			Pitch circle dia. Dp	(Outer dia.) (Do)	Dia. DH	Length L		Tolerance H7											
H15 0022	RS35-1B10T-SS-H □ □ J	10	30.82	35	25	20	5	10	12										
H15 0023	RS35-1B11T-SS-H □ □ J	11	33.81	38	27	20	5	10	12	14									
H15 0024	RS35-1B12T-SS-H □ □ J	12	36.80	41	31	20	5	10	12	14	15	16							
H15 0025	RS35-1B13T-SS-H □ □ J	13	39.80	44	32	20	5	10	12	14	15	16	17	18					
H15 0026	RS35-1B14T-SS-H □ □ J	14	42.81	47	30	20	8	10	12	14	15	16							
H15 0027	RS35-1B15T-SS-H □ □ J	15	45.81	51	35	20	8	10	12	14	15	16	17	18	19				
H15 0028	RS35-1B16T-SS-H □ □ J	16	48.82	54	37	20	8	10	12	14	15	16	17	18	19	20			
H15 0029	RS35-1B17T-SS-H □ □ J	17	51.84	57	41	20	8		12	14	15	16	17	18	19	20	22	24	
H15 0030	RS35-1B18T-SS-H □ □ J	18	54.85	60	44	20	8			14	15	16	17	18	19	20	22	24	
H15 0031	RS35-1B19T-SS-H □ □ J	19	57.87	63	47	20	8			14	15	16	17	18	19	20	22	24	25
H15 0032	RS35-1B20T-SS-H □ □ J	20	60.89	66	50	20	8			14	15	16	17	18	19	20	22	24	25
H15 0033	RS35-1B21T-SS-H □ □ J	21	63.91	69	53	20	8			14	15	16	17	18	19	20	22	24	25
H15 0034	RS35-1B22T-SS-H □ □ J	22	66.93	72	53	20	8			14	15	16	17	18	19	20	22	24	25
H15 0035	RS35-1B23T-SS-H □ □ J	23	69.95	75	53	20	8			14	15	16	17	18	19	20	22	24	25
H15 0036	RS35-1B24T-SS-H □ □ J	24	72.97	78	53	22	10/7*			14	15	16	17	18	19	20	22	24*	25*
H15 0037	RS35-1B25T-SS-H □ □ J	25	76.00	81	53	22	10/7*				15	16	17	18	19	20	22	24*	25*
H15 0038	RS35-1B26T-SS-H □ □ J	26	79.02	84	53	22	10/7*				15	16	17	18	19	20	22	24*	25*
H15 0039	RS35-1B27T-SS-H □ □ J	27	82.05	87	53	22	10/7*				15	16	17	18	19	20	22	24*	25*
H15 0040	RS35-1B28T-SS-H □ □ J	28	85.07	90	53	22	10/7*				15	16	17	18	19	20	22	24*	25*
H15 0041	RS35-1B30T-SS-H □ □ J	30	91.12	96	53	22	10/7*				15	16	17	18	19	20	22	24*	25*

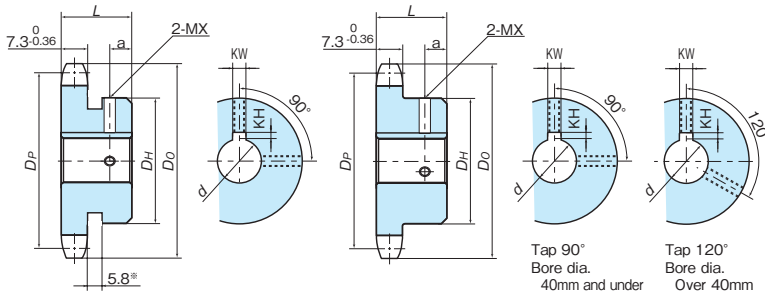
<Time for delivery> All products will be produced in three days.

Note: The tap is at a 7-mm position for models shown with asterisk-marked bore diameters.

RS40 Stainless Fit Bore

Hub with groove
(No. of teeth: 10T to 12T)

Hub without groove
(No. of teeth: 13T and over)



No. of teeth	Hub dia.	Groove dia.
10T	φ 32	φ 25
11T	φ 37	φ 30
12T	φ 40	φ 32

* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew size MX
10 and up to 12	4		1.8	+0.1	M4
More than 12 and up to 17	5	±0.0150	2.3	0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3	+0.2	M8
More than 30 and up to 38	10		3.8	0	M10
More than 38 and up to 44	12	±0.0215	4.3		
More than 44 and up to 50	14		4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

Provided with two stainless setscrews.

Model No.

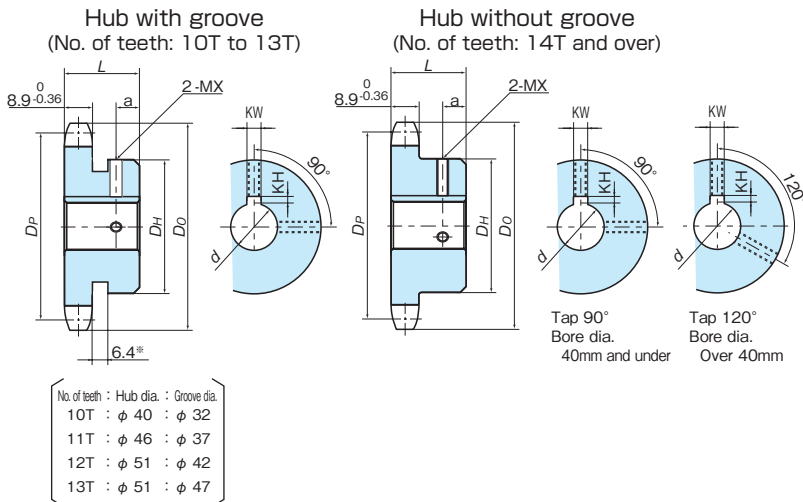
RS40 - 1B 20T - SS - H □ □ J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
Stainless steel: SS
No. of teeth
Type
Chain no.

Product code	Model number	No. of teeth	Basic dimensions		Hub		Tap position a	Finished bore dia. d															
			Pitch circle dia. Dp	(Outer dia.) (Do)	Dia. Dh	Length L		Tolerance H7															
H15 0042	RS40-1B10T-SS-H □ □ J	10	41.10	47	32	22	5	10	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0043	RS40-1B11T-SS-H □ □ J	11	45.08	51	37	22	5	10	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0044	RS40-1B12T-SS-H □ □ J	12	49.07	55	40	22	5	10	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0045	RS40-1B13T-SS-H □ □ J	13	53.07	59	37	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0046	RS40-1B14T-SS-H □ □ J	14	57.07	63	42	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0047	RS40-1B15T-SS-H □ □ J	15	61.08	67	46	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0048	RS40-1B16T-SS-H □ □ J	16	65.10	71	50	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0049	RS40-1B17T-SS-H □ □ J	17	69.12	76	54	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0050	RS40-1B18T-SS-H □ □ J	18	73.14	80	57	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0051	RS40-1B19T-SS-H □ □ J	19	77.16	84	62	22	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0052	RS40-1B20T-SS-H □ □ J	20	81.18	88	67	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0053	RS40-1B21T-SS-H □ □ J	21	85.21	92	71	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0054	RS40-1B22T-SS-H □ □ J	22	89.24	96	75	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0055	RS40-1B23T-SS-H □ □ J	23	93.27	100	77	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0056	RS40-1B24T-SS-H □ □ J	24	97.30	104	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0057	RS40-1B25T-SS-H □ □ J	25	101.33	108	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0058	RS40-1B26T-SS-H □ □ J	26	105.36	112	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0059	RS40-1B27T-SS-H □ □ J	27	109.40	116	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0060	RS40-1B28T-SS-H □ □ J	28	113.43	120	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35
H15 0061	RS40-1B30T-SS-H □ □ J	30	121.50	128	63	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35

<Time for delivery> All products will be produced in three days.

RS50 Stainless Fit Bore



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew size MX
10 and up to 12	4		1.8	+0.10	M4
More than 12 and up to 17	5	± 0.0150	2.3		M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	± 0.0180	3.3	+0.20	M8
More than 30 and up to 38	10		3.8		M8
More than 38 and up to 44	12	± 0.0215	4.3		M10
More than 44 and up to 50	14		4.4		M10
More than 50 and up to 58	16				
More than 58 and up to 65	18				

Provided with two stainless setscrews.

Model No.

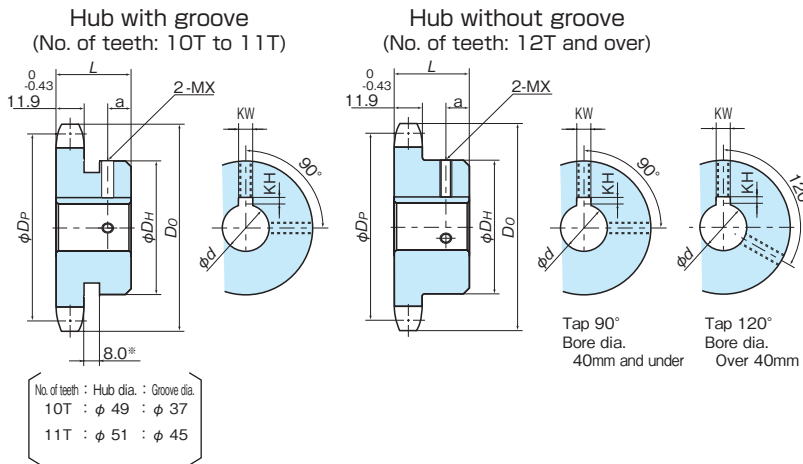
RS50 - 1B 20T - SS - H ☐ ☐ J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
Stainless steel: SS
No. of teeth
Type
Chain no.

Product code	Model number	Standard price (Yen)	No. of teeth	Basic dimensions		Hub		Tap position a	Finished bore dia. <i>d</i> Tolerance H7																				
				Pitch circle dia. <i>D_P</i>	(Outer dia.) (<i>D_o</i>)	Dia. <i>D_H</i>	Length <i>L</i>		10	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0062	RS50-1B10T-SS-H□□J	4,350	10	51.37	58	40	25	6	10	12	14	15	16	17	18	19	20	22	24	25									
H15 0063	RS50-1B11T-SS-H□□J	4,600	11	56.35	64	46	25	6			14	15	16	17	18	19	20	22	24	25									
H15 0064	RS50-1B12T-SS-H□□J	4,980	12	61.34	69	51	25	6			14	15	16	17	18	19	20	22	24	25	28	30	32						
H15 0065	RS50-1B13T-SS-H□□J	5,350	13	66.34	74	51	25	6			14	15	16	17	18	19	20	22	24	25	28	30	32						
H15 0066	RS50-1B14T-SS-H□□J	5,760	14	71.34	79	52	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32						
H15 0067	RS50-1B15T-SS-H□□J	6,200	15	76.35	84	57	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35					
H15 0068	RS50-1B16T-SS-H□□J	6,600	16	81.37	89	62	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40			
H15 0069	RS50-1B17T-SS-H□□J	7,750	17	86.39	94	67	25	7			14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0070	RS50-1B18T-SS-H□□J	8,640	18	91.41	100	72	28	8			14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0071	RS50-1B19T-SS-H□□J	9,640	19	96.45	105	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0072	RS50-1B20T-SS-H□□J	9,850	20	101.48	110	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0073	RS50-1B21T-SS-H□□J	11,100	21	106.51	115	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0074	RS50-1B22T-SS-H□□J	11,400	22	111.55	120	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0075	RS50-1B23T-SS-H□□J	11,700	23	116.58	125	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0076	RS50-1B24T-SS-H□□J	12,200	24	121.62	130	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0077	RS50-1B25T-SS-H□□J	12,800	25	126.66	135	73	28	8						17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	
H15 0078	RS50-1B26T-SS-H□□J	13,200	26	131.70	140	73	28	8								19	20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0079	RS50-1B27T-SS-H□□J	14,000	27	136.74	145	73	28	8								19	20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0080	RS50-1B28T-SS-H□□J	14,100	28	141.79	150	73	28	8								19	20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0081	RS50-1B30T-SS-H□□J	15,100	30	151.87	161	73	28	8								19	20	22	24	25	28	30	32	35	38	40	42	45	48

<Time for delivery> All products will be produced in three days.

RS60 Stainless Fit Bore



* The groove is provided on the perimeter of the hub in order to prevent the interference of the sprocket with the chain.

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew size MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M10
More than 38 and up to 44	12		4.3		
More than 44 and up to 50	14	±0.0215	4.4		
More than 50 and up to 58	16				
More than 58 and up to 65	18				

Provided with two stainless setscrews.

Model No.

RS60 - 1B 20T - SS - H □ □ J

Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
Stainless steel: SS
No. of teeth
Type
Chain no.

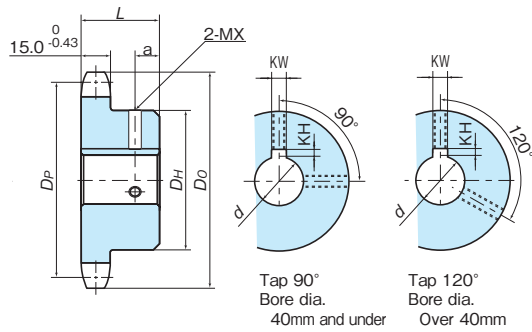
Product code	Model number	No. of teeth	Basic dimensions		Hub		Tap position a	Finished bore dia. d																						
			Pitch circle dia. DP	(Outer dia.) (D0)	Dia. DH	Length L		Tolerance H7																						
H15 0082	RS60-1B10T-SS-H □ □ J	10	61.65	70	49	32	6	14	15	16	17	18	19	20	22	24	25	28	30	32										
H15 0083	RS60-1B11T-SS-H □ □ J	11	67.62	76	51	32	6	14	15	16	17	18	19	20	22	24	25	28	30	32										
H15 0084	RS60-1B12T-SS-H □ □ J	12	73.60	83	51	32	12	14	15	16	17	18	19	20	22	24	25	28	30	32										
H15 0085	RS60-1B13T-SS-H □ □ J	13	79.60	89	57	32	12				17	18	19	20	22	24	25	28	30	32	35									
H15 0086	RS60-1B14T-SS-H □ □ J	14	85.61	95	62	32	12				17	18	19	20	22	24	25	28	30	32	35	38								
H15 0087	RS60-1B15T-SS-H □ □ J	15	91.62	101	68	32	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45					
H15 0088	RS60-1B16T-SS-H □ □ J	16	97.65	107	73	32	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45					
H15 0089	RS60-1B17T-SS-H □ □ J	17	103.67	113	73	32	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45					
H15 0090	RS60-1B18T-SS-H □ □ J	18	109.71	119	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0091	RS60-1B19T-SS-H □ □ J	19	115.74	126	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0092	RS60-1B20T-SS-H □ □ J	20	121.78	132	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0093	RS60-1B21T-SS-H □ □ J	21	127.82	138	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0094	RS60-1B22T-SS-H □ □ J	22	133.86	144	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0095	RS60-1B23T-SS-H □ □ J	23	139.90	150	83	40	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0096	RS60-1B24T-SS-H □ □ J	24	145.95	156	83	40	12					19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55			
H15 0097	RS60-1B25T-SS-H □ □ J	25	151.99	162	83	40	12						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0098	RS60-1B26T-SS-H □ □ J	26	158.04	168	83	40	12						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0099	RS60-1B27T-SS-H □ □ J	27	164.09	174	83	40	12						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0100	RS60-1B28T-SS-H □ □ J	28	170.14	180	83	40	12						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		
H15 0101	RS60-1B30T-SS-H □ □ J	30	182.25	193	83	40	12						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55		

<Time for delivery> All products will be produced in three days.

RS80 Stainless Fit Bore

Applicable chain pitch: 25.40 mm Roller dia.: 15.88 mm

RS80 Stainless Fit Bore



Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew size MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		
More than 30 and up to 38	10			+0.2 0	M8
More than 38 and up to 44	12		3.8		
More than 44 and up to 50	14	±0.0215	4.3		M10
More than 50 and up to 58	16		4.4		
More than 58 and up to 65	18				

Provided with two stainless setscrews.

Model No.

RS80 - 1B 20T - SS - H □ □ J

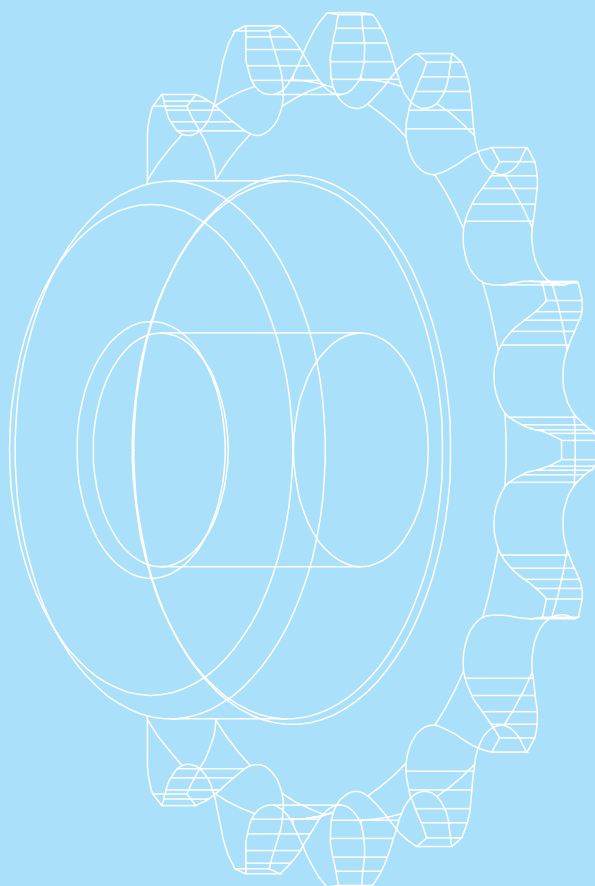
Keyway tolerance (Js9)
Bore dia.
Bore tolerance (H7)
Stainless steel: SS
No. of teeth
Type
Chain no.

Product code	Model number	No. of teeth	Basic dimensions		Hub		Tap position a	Finished bore dia. d															
			Pitch circle dia. DP	(Outer dia.) (DO)	Dia. DH	Length L		Tolerance H7															
H15 0102	RS80-1B10T-SS-H □ □ J	10	82.20	93	52	40	12	17	18	19	20	22	24	25	28	30	32						
H15 0103	RS80-1B11T-SS-H □ □ J	11	90.16	102	60	40	12	17	18	19	20	22	24	25	28	30	32	35	38				
H15 0104	RS80-1B12T-SS-H □ □ J	12	98.14	110	67	40	12				20	22	24	25	28	30	32	35	38	40	42	45	
H15 0105	RS80-1B13T-SS-H □ □ J	13	106.14	118	77	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0106	RS80-1B14T-SS-H □ □ J	14	114.15	127	77	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0107	RS80-1B15T-SS-H □ □ J	15	122.17	135	93	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0108	RS80-1B16T-SS-H □ □ J	16	130.20	143	93	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0109	RS80-1B17T-SS-H □ □ J	17	138.23	151	93	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0110	RS80-1B18T-SS-H □ □ J	18	146.27	159	93	40	12				20	22	24	25	28	30	32	35	38	40	42	45	48
H15 0111	RS80-1B19T-SS-H □ □ J	19	154.32	167	93	40	12							25	28	30	32	35	38	40	42	45	48
H15 0112	RS80-1B20T-SS-H □ □ J	20	162.37	176	93	40	12							25	28	30	32	35	38	40	42	45	48
H15 0113	RS80-1B21T-SS-H □ □ J	21	170.42	184	93	40	12							25	28	30	32	35	38	40	42	45	48
H15 0114	RS80-1B22T-SS-H □ □ J	22	178.48	192	107	45	12									30	32	35	38	40	42	45	48
H15 0115	RS80-1B23T-SS-H □ □ J	23	186.54	200	107	45	12									30	32	35	38	40	42	45	48
H15 0116	RS80-1B24T-SS-H □ □ J	24	194.60	208	107	45	12									30	32	35	38	40	42	45	48
H15 0117	RS80-1B25T-SS-H □ □ J	25	202.66	216	107	45	12									30	32	35	38	40	42	45	48

<Time for delivery> All products will be produced in three days.

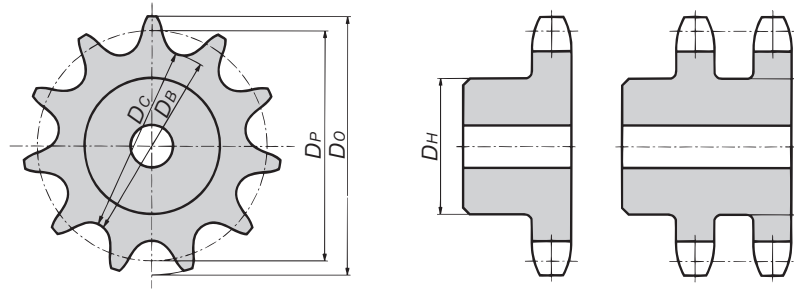
SPROCKETS FOR TRANSMISSION & SMALL-SIZED CONVEYANCE APPLICATIONS

TECHNICAL DATA



RS Sprocket Technical Data

1. Nomenclature and Dimensions



$$D_P = P / \sin \frac{180^\circ}{N}$$

$$D_O = P \left(0.6 + \cot \frac{180^\circ}{N} \right)$$

$$D_B = D_P - d_i$$

$$D_C = D_B \quad \text{[For even-numbered teeth]}$$

$$D_C = D_P \cos \frac{90^\circ}{N} - d_i \quad \text{[For odd-numbered teeth]}$$

$$D_H = P \left(\cot \frac{180^\circ}{N} - 1 \right) - 0.76$$

D_P = Pitch circle dia.

D_O = Outer dia.

D_B = Bottom dia.

D_C = Caliper dia.

D_H = Max. hub dia. and max. groove dia.

P = Chain pitch

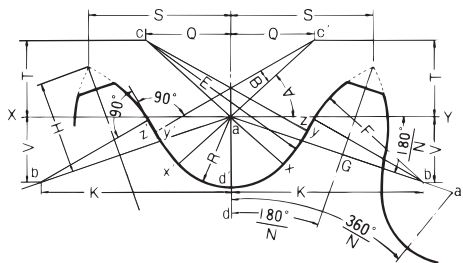
d_i = Roller outer dia.

N = No. of teeth

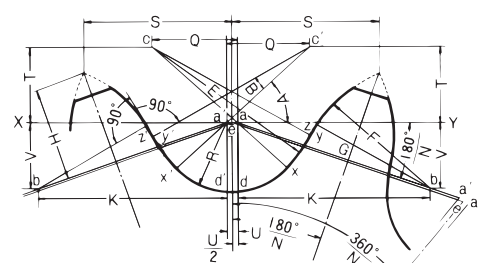
2. Tooth Specifications

2-1 Tooth profile

TSUBAKI's sprockets are machined with S-tooth profile conforming Japan Industrial Standards (JIS) except some models that are also available with U-tooth profile conforming JIS.



S-tooth profile



U-tooth profile

$$pa = p \left(1 + \frac{D_S - d_i}{D_P} \right)$$

$$D_S = 2R = 1.005 d_i + 0.076$$

$$U = 0.07 (p - d_i) + 0.051$$

$$R = D_S / 2 = 0.5025 d_i + 0.038$$

$$A = 35^\circ + 60^\circ / N$$

$$B = 18^\circ - 56^\circ / N$$

$$ac = 0.8 d_i$$

$$Q = 0.8 d_i \cos (35^\circ + 60^\circ / N)$$

$$T = 0.8 d_i \sin (35^\circ + 60^\circ / N)$$

$$E = cy = 1.3025 d_i + 0.038$$

$$\overline{xy} = (2.605 d_i + 0.076) \sin (9^\circ - 28^\circ / N)$$

$$yz = d_i [1.4 \sin (17^\circ - 64^\circ / N) - 0.8 \sin (18^\circ - 56^\circ / N)]$$

$$G = ab = 1.4 d_i \quad \text{[Point b is located on the line that is } 180^\circ / N \text{ to line XY from point a on line XY.]}$$

$$K = 1.4 d_i \cos 180^\circ / N$$

$$V = 1.4 d_i \sin 180^\circ / N$$

$$F = d_i [0.8 \cos (18^\circ - 56^\circ / N) + 1.4 \cos (17^\circ - 64^\circ / N) - 1.3025] - 0.038$$

$$H = \sqrt{F^2 - \left(1.4 d_i - \frac{pa}{2} + \frac{U}{2} \cos 180^\circ / N \right)^2 + \frac{U}{2} \sin 180^\circ / N}$$

[U is 0 for the S-tooth profile.]

$$S = \frac{pa}{2} \cos 180^\circ / N + H \sin 180^\circ / N$$

External diameter when the tooth point sharpens. = $pa \cot 180^\circ / N + 2H$

Max. pressure angle = $x_{ab} = 35^\circ - 120^\circ / N$

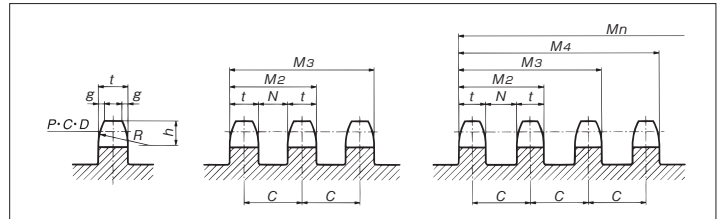
Min. pressure angle = $x_{ab} - B = 17^\circ - 64^\circ / N$

Average pressure angle = $26^\circ - 92^\circ / N$

N : No. of teeth; d_i : Roller outer diameter; D_P : Pitch circle diameter; p : Chain pitch;

pa : Tooth profile pitch (a-a₁: S-tooth profile; e-e₁: U-tooth profile)

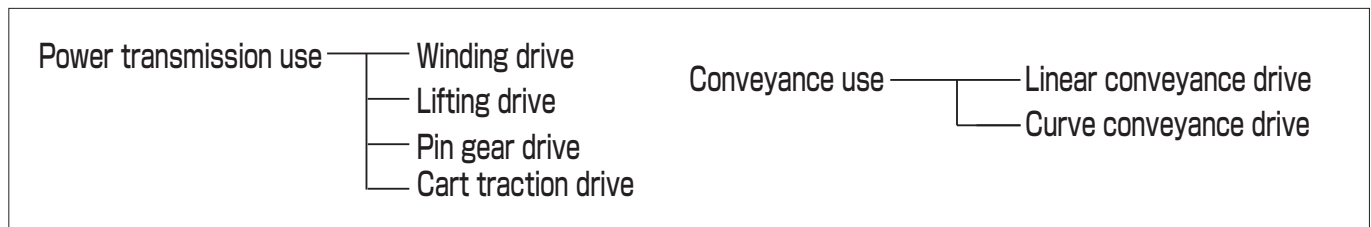
2-2 Teeth and Width Dimensions



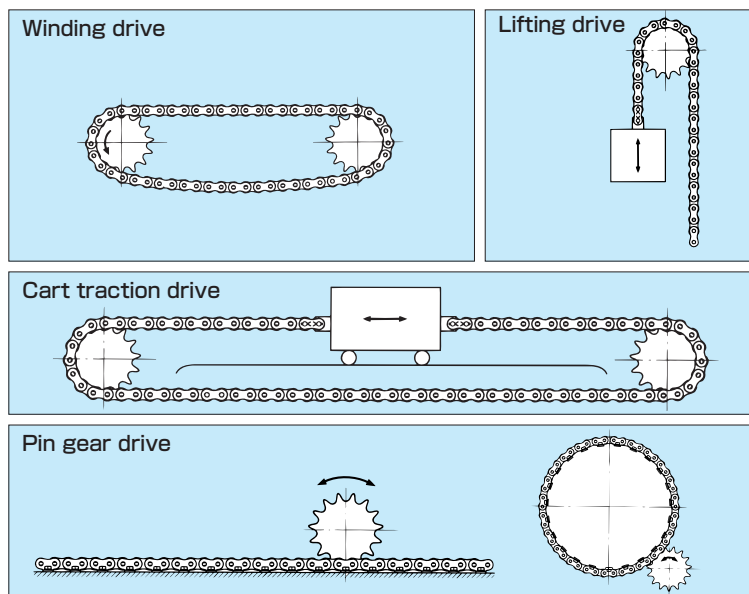
Chain no.	Each strand			<i>t</i> (max.)			<i>C</i>	2 or 3 strand			4 strand and over					
	<i>g</i> (Reference)	<i>h</i>	<i>R</i> (Min.)	1 strand	2 or 3 strand	4 strand and over		<i>M</i> ₂	<i>M</i> ₃	<i>N</i>	<i>M</i> ₂	<i>M</i> ₃	<i>M</i> ₄	<i>M</i> ₅	<i>M</i> ₆	<i>N</i>
RS 11	0.5	1.9	4.0	1.6	—	—	—	—	—	—	—	—	—	—	—	—
RS 15	0.6	2.4	5.1	2.0	—	—	—	—	—	—	—	—	—	—	—	—
RS 25	0.8	3.2	6.8	2.9	2.8	2.8	6.4	9.2	15.6	3.6	9.2	15.6	22.0	28.4	34.8	3.6
RS 35	1.2	4.8	10.1	4.4	4.3	4.2	10.1	14.4	24.5	5.8	14.3	24.4	34.5	44.6	54.7	5.9
RS 41	1.6	6.4	13.5	5.8	—	—	—	—	—	—	—	—	—	—	—	—
RS 40	1.6	6.4	13.5	7.3	7.1	7.0	14.4	21.5	35.9	7.3	21.4	35.8	50.2	64.6	79.0	7.4
RS 50	2.0	7.9	16.9	8.9	8.7	8.6	18.1	26.8	44.9	9.4	26.7	44.8	62.9	81.0	99.1	9.5
RS 60	2.4	9.5	20.3	11.9	11.7	11.4	22.8	34.5	57.3	11.1	34.2	57.0	79.8	102.6	125.4	11.4
RS 80	3.2	12.7	27.0	15.0	14.6	14.3	29.3	43.9	73.2	14.7	43.6	72.9	102.2	131.5	160.8	15.0
RS100	4.0	15.9	33.8	18.0	17.6	17.2	35.8	53.4	89.2	18.2	53.0	88.8	124.6	160.4	196.2	18.6
RS120	4.7	19.0	40.5	24.0	23.5	23.0	45.4	68.9	114.3	21.9	68.4	113.8	159.2	204.6	250.0	22.4
RS140	5.5	22.2	47.3	24.0	23.5	23.0	48.9	72.4	121.3	25.4	71.9	120.8	169.7	218.6	267.5	25.9
RS160	6.3	25.4	54.0	30.0	29.3	28.7	58.5	87.8	146.3	29.2	87.2	145.7	204.2	262.7	321.2	29.8
RS180	7.1	28.6	60.8	33.7	33.0	32.3	65.8	98.8	164.6	32.8	98.1	163.9	229.7	295.5	361.3	33.5
RS200	8.0	31.8	67.5	36.0	35.2	34.4	71.6	106.8	178.4	36.4	106.0	177.6	249.2	320.8	392.4	37.2
RS240	9.5	38.1	81.0	45.0	44.0	43.1	87.8	131.8	219.6	43.8	130.9	218.7	306.5	394.3	482.1	44.7

Sprocket Operating Range

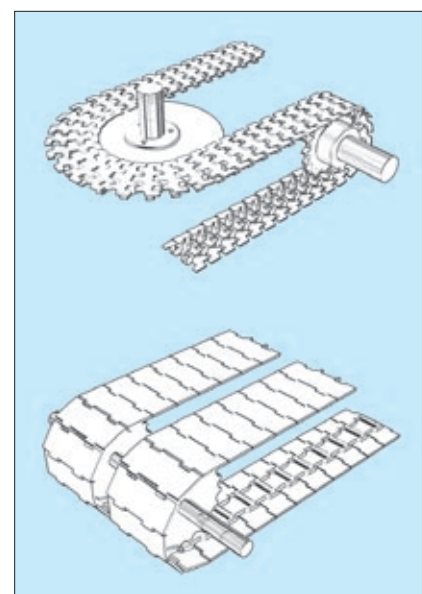
RS standard sprockets are generally classified roughly into sprockets for power transmission and those for conveyance.



Power transmission use



Conveyance use



Selection of RS Sprocket Models

RS sprocket models are specified by the following six elements.

To select an optimum sprocket model, consider the model number of the chain in use and operating conditions.

1. Specifications of Chain in Use

The tooth specifications (the tooth profile and tooth dimensional accuracy) of each RS sprocket model vary with the chain to be used.

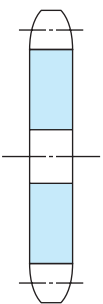
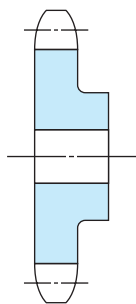
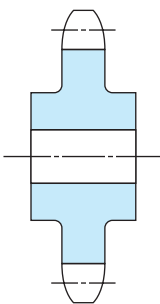
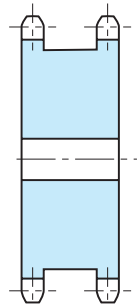
The RS sprocket is manufactured with the tooth shape and tooth dimensional accuracy suitable to the chain to be used so that the RS sprocket can bring out the maximum performance of the chain.

2. No. of Teeth

RS sprocket models vary in the number of teeth, ranging from a small to large number.

3. Constructions

Four types of RS sprocket constructions are specified by our standard.

Type symbol	Type A (flat)	Type B (single hub)	Type C (both hubs)	Type SD (Single dual)
Construction				
Specifications	Flat structure with no hub (boss).	Flat structure with a hub (boss) on a single side.	Flat structure with hubs (bosses) on both sides.	Structure where two single-strand chains can be put.

4. Bore Specifications

Select one of the following three types of bore specifications when mounting an RS sprockets to a shaft.

Type	Appearance	Specifications
Sprocket with pilot bore		A sprocket is provided with a pilot bore that needs processing before use.
Fit bore sprocket		A sprocket is provided with a bore with a diameter tolerance of H7, a keyway with a JIS tolerance of Js9, and added with two setscrews processed. The sprocket can be used as it is without additional time-consuming processing.
Lock sprocket		When the mounting bolts are tightened, the frictional force of the taper sleeve will secure the sprocket to the shaft. The sprocket can be mounted and phase adjusted simply without additional time-consuming key processing on the shaft side. The sprocket can be dismantled with ease as well.

5. Materials

RS sprocket models use the following standardized materials.

Material	Specifications	
Carbon steel	Used for sprockets with general specifications	* Carbon steel for machine structural use * Rolled steel for general structure
Stainless steel	Used for sprockets with environmentally-resistant specifications	* Ni-Cr stainless steel
Resin	Used for sprockets with environmentally-resistant specifications	* Engineering plastics
Sintered alloy	Used for compact-size sprockets (RS25 sprockets)	* Sintered iron steel

6. Teeth Specifications

Material	Specifications
Teeth with hardened specifications	Sprockets with hardened teeth are used if the reinforcement of the teeth and a friction life improvement. Products of the RS Sprocket Strong Series , which vary in the number of teeth in a wide range from a small number to a large number, are provided with high-frequency-hardened teeth.
Teeth with non-hardened specifications	The teeth are not hardened. Products of the RS Sprocket with a large number of teeth are provided with non-hardened teeth.

Sprocket Specifications

1. Types of Sprockets

This section provides model specifications of RS standard sprockets for the following chains. RS sprocket models in a wide variety are prepared so that users can select optimum models according to their operating conditions.

1-1 Transmission Chain

Chain specifications		Sprocket specifications			
		Structure	Bore specifications	Materials	Teeth specifications
RS roller chain (Winding drive) (Lifting drive) (Cart traction drive)		Single-strand type A	Pilot bore	Carbon steel	Hardened specifications Non-hardened specifications
		Single-strand type B	Pilot bore Fit bore sprocket Lock sprocket	Carbon steel Sintered alloy Stainless steel Engineering plastic material	Hardened specifications Non-hardened specifications
		Single-strand type C	Pilot bore	Carbon steel	Hardened specifications
		Double-strand type B			Non-hardened specifications
		Double-strand type C			Non-hardened specifications
RS roller chain (Pin gear drive)		Dedicated single-strand type B	Pilot bore	Carbon steel	Hardened specifications Non-hardened specifications
RS Lambda chain (Winding drive)	Single strand	Sprockets for RS roller chains can be used. Standard sprockets cannot be used for two or more strands.			

1-2 Small-sized Conveyance Chain

Chain specifications			Sprocket specifications			
			Structure		Bore specifications	Materials
Double-pitch chain	R-roller		Dedicated single-strand type B	Pilot bore Fit bore sprocket Lock sprocket	Carbon steel Stainless steel	Non-hardened specifications
	S-roller		Dedicated single-strand type B If the number of teeth is 30T or more, sprockets for RS roller chains can be used.	Pilot bore Fit bore sprocket Lock sprocket	Carbon steel Stainless steel Engineering plastic material	Non-hardened specifications
RS conveyor chain with attachment			Sprockets for RS roller chains (winding drive) can be used.			
Free-flow chain	Double-plus chain		Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	Center roller chain					
	RF chain provided with side roller		Sprockets dedicated to double-pitch chains can be used.			
	RS chain provided with side roller		Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	RF chain with top roller	R-roller	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
		S-roller	Sprockets dedicated to double-pitch chains can be used.			
	RS chain with top roller		Sprockets for RS roller chains (winding drive) can be used.			
Needle bush chain			Sprockets dedicated to R-roller type double-pitch chains can be used.			

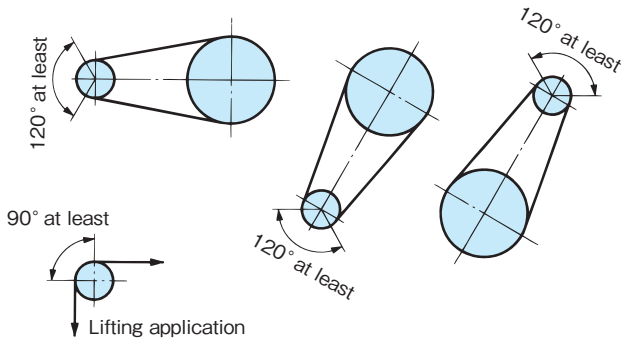
Chain specifications		Sprocket specifications			
		Structure	Bore specifications	Materials	Teeth specifications
Top chain (plastic made)	TTP TTPH	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	TN TNU	Sprockets for RS60 roller chains (winding drive) can be used. (12 teeth and over)			
	TPF	Dedicated single-strand type C	Pilot bore	Carbon steel	Non-hardened specifications
	TPS · TTUP · TPU	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	RS plastic chain	RSP40 RSP60	Sprockets for RS40 or RS60 roller chains can be used. (14 teeth and over)		
		RSP60-2	Two RS roller chain sprocket for the RS60 can be used with spacer in between. (14 teeth and over)		
		TPRF2040	Sprockets for RF2040S double-pitch chains can be used.		
	Roller table	ST	Dedicated single-strand type B and RS roller chains (winding drive) can be used in case of 23 teeth and over.		
		RT	Dedicated single-strand type B and RS roller chains (winding drive) can be used in case of 15 teeth and over.		
	TPUSR	Dedicated single-strand type B	Pilot bore	Carbon steel Stainless steel	Non-hardened specifications
	TPUN universal	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
Top chain (steel made)	TT	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	TS TSA	Sprockets dedicated to S-roller type double-pitch chains can be used. Sprockets for RS roller chains (winding drive) can be used in case of 30 teeth and over.			
	TTU	Dedicated single-strand type B	Pilot bore	Carbon steel	Non-hardened specifications
	TTKU	Sprockets for RS60 roller chains (winding drive) can be used. (12 teeth and over)			
	TRU	Sprockets for RS60 roller chains (winding drive) can be used. (19 teeth and over)			
	TOS	Dedicated single-strand type B	Pilot bore	Gray cast iron	Non-hardened specifications
	TOR	Dedicated single-strand type B	Pilot bore	Gray cast iron	Non-hardened specifications
	TU	Dedicated single-strand type B	Pilot bore	Gray cast iron	Non-hardened specifications

Handling of Sprockets

2. Roller Chain and Sprocket Allocation and Installation

2-1 Speed Ratio and Winding Angle

Roller chain transmission at a speed ratio of up to 7:1 is appropriate. If the speed of roller chain transmission is very low, however, a speed ratio of up to 10:1 will be possible. A minimum winding angle of 120° is required if a chain is applied to a small sprocket. A minimum angle of 90° , however, is required for lifting applications.



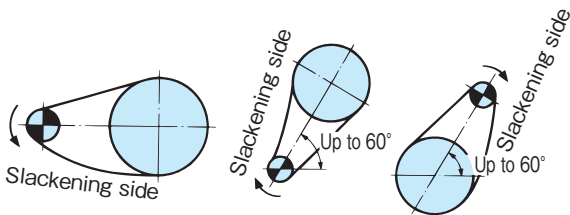
2-2 Distance between Shafts

The shortest distance between shafts can be set on the condition that the teeth of the two sprockets do not come in contact. It will be ideal if the distance between the center of each shaft is 30 to 50 times as great as the pitch of the roller chain in use. However, the distance should be up to 20 times the pitch of the chain when there is a fluctuating load.

2-3 Allocation

1) Standard Allocation

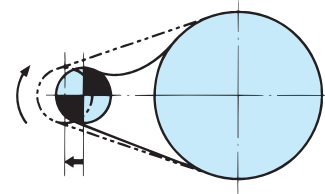
When allocating sprockets for roller chain transmission, it is desirable that the line connecting the centers of both sprockets is as horizontal as possible. If installation is close to vertical, it is desirable to install an idler or a guide shoe because even slight elongation can cause the chain to come off the sprocket. The angle of inclination should be within 60° as much as possible.



2) Allocation Requiring Attention

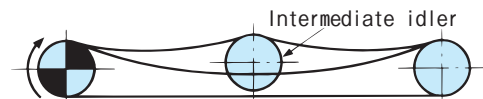
① Slackening on Upper Side

If the center distance is short, slide the bearings to adjust the center distance of the sprockets so that the tension of the chain will become a little higher.



② Long Center Distance

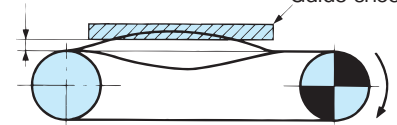
If the center distance is long, insert an idler from the inner side of the slack to support the roller chain.



③ High Chain Speed with Load Fluctuation Imposed

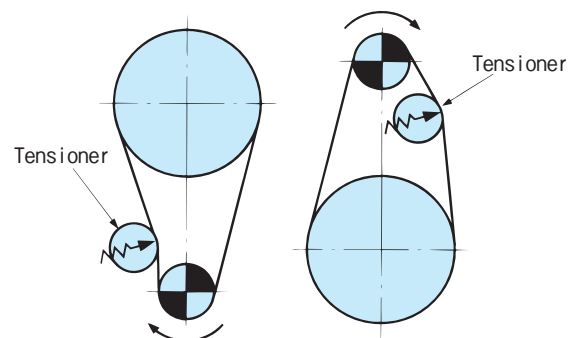
The roller chain may vibrate as a result of the synchronization of the character frequency of the roller chain with the impact cycle of the driven machine or chordal action of the roller chain (the polygonal movement of the roller chain upward and downward). If that happens, suppress the vibration with a guide shoe (NBR or super-high-molecular polyethylene).

The clearance between the chain and contact surface is 2 to 4 mm.



3) Vertical Centerline

Mount a tensioner that can automatically adjust the redundant slack. This is especially required if the drive shaft is on the lower side.



2-4 Number of Sprocket Teeth

Smooth transmission will be possible if the number of sprocket teeth on the high-speed shaft side is as large as possible. Usually 15 or more teeth are appropriate. If the speed ratio is high and the number of sprocket teeth on the lower-speed side exceeds 120, however, an engagement failure may result from slight wear elongation of the chain. If that happens, decrease the number of sprocket teeth on the high-speed side.

In the above case, however, the use of a minimum of 13 teeth is recommended.

If there is no shock with very low speed, a sprocket with a minimum of 12 teeth can be used.

2-5 Hardening of Sprocket Teeth

Under the following conditions, sprocket teeth need to be hardened.

- 1) The number of teeth is 24 or less and the rotating speed is more than 1/8 of the maximum rotating speed specified in the transmission capacity table for roller chain.
- 2) A smaller sprocket with the speed ratio is more than 4:1.
- 3) Low-speed heavy loads (with low-speed selection method adopted)
- 4) Under conditions that cause tooth abrasion.

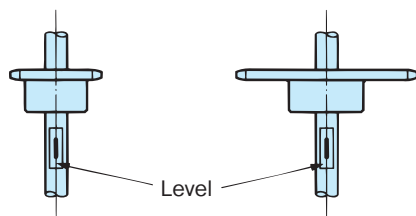
2-6 Shaft Parallelism and Tolerance

The mounting dimensional accuracy of sprockets has a great influence on the smooth transmission and life of roller chains.

Take the following procedure and mount each sprocket correctly.

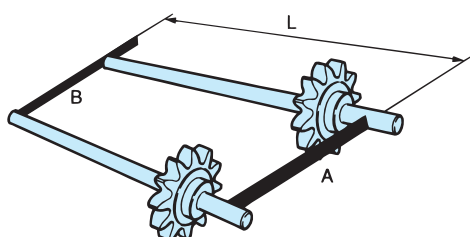
- 1) Check the levelness of the shaft with a level.

Make sure that the degree of accuracy is within $\pm 1/300$.



- 2) Check the parallelism of the shaft with a scale.

Adjust the parallelism of the shaft within a range of $\pm 1/300 = \left(\frac{A-B}{L} \right)$.

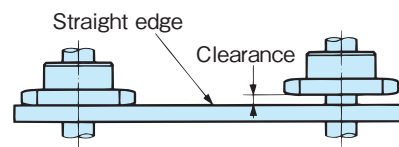


- 3) Use a straight edge (or a scale) and make adjustments so that the sprockets in pair will be located on the same plane. Check that the following condition is maintained according to the distance between the shafts of the sprockets.

Up to 1 m : ± 1 mm

More than 1 m and up to 10 m : $\pm \frac{\text{Shaft-to-shaft distance (mm)}}{1000}$

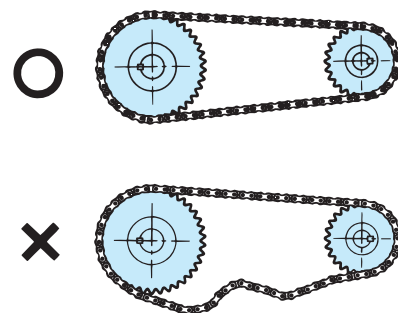
More than 10 m : ± 10 mm



- 4) Secure each sprocket with a power lock, lock sprocket, or key (and a collar and set bolt, if required) to the shaft.

2-7 Amount of Slack

- 1) Unlike V-belt or flat belt transmission, there is no need to give initial tension to roller chain transmission. Usually, a roller chain is used with appropriate slack. If the roller chain is too tense, the oil film between the pin and bushing will be broken and damage to the roller chain and bearing will be accelerated. If the chain is too slack, the roller chain will vibrate or wound on the sprockets, which will damage the roller chain and sprockets.

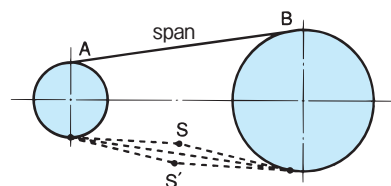


- 2) The lower side of the roller chain in transmission operation should be the slack if possible. Move the center of the slack vertically, the slack is appropriate if the distance between S and S' is approximately 4% of the span between A and B. If the span is 800 mm long, the slack is 32 mm ($800 \times 0.04 = 32$ mm). Set the slack to approximately 2% in the following cases.

- ① The roller chain is located vertically or almost vertically, in which case a tensioner will be required.
- ② The distance between shafts are 1 m or over.
- ③ The roller chain is operated frequent starts with heavy loads imposed on the roller chain.
- ④ The roller chain suddenly rotates in the reverse direction.

- 3) The roller chain elongates (by approximately 0.05%) for the first several tens of hours as the roller chain fits the contact surface of each part after the roller chain comes into use. Therefore, the roller chain will be a little too slack and need adjustment then.

If the application is designed with a tension adjuster, make tension adjustments with it. If no tension adjuster is provided, slide the bearings to adjust the slack. After the above period is over, the chain will fit the parts well and the elongation of the chain will be minimal.



3. Precautions for Sprocket Modification

Follow the precautions below in the case of processing a standard sprocket provided with a pilot bore.

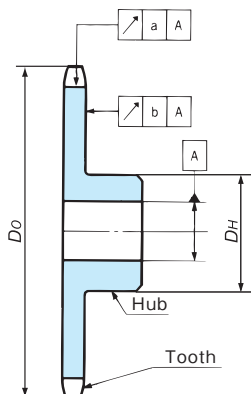
3-1 Bore Processing

①Max. bore Processing Diameter

The bore processing diameter must not exceed the maximum size specified in the size table for the model. Consult your TSUBAKI representative when using keys not conforming with JIS.

②Processing Standards

Chuck and process the sprocket based on the outer diameter of the teeth (DO in the illustration) or the outer diameter of the hub (DH in the illustration). At that time, make sure that the runout of the tooth bottom (indicated by "a" in the illustration) and the runout of the tooth side (indicated by "b" in the illustration) do not exceed the values shown in the table below.



Machined Specifications

					Unit: mm
Tooth bottom circle dia. (d_f)	Up to 90	More than 90 and up to 190	More than 190 and up to 850	More than 850 and up to 1180	More than 1180
Tooth bottom runout a	0.15	$0.0008d_f + 0.08$		0.76	
Face runout b	0.25		$0.0009d_f + 0.08$		1.14

3-2 Type-A Sprocket Welding

Do not use type-A sprockets with hubs welded, because the welding of the hubs may deform the sprockets or runout the teeth of the sprockets and the quality of the sprockets may not be maintained.

Do not weld Strong-series type-A sprockets either, because the hardness of the sprockets may be degraded.

3-3 Hub Outer Diameter Processing

Do not process the outer diameters of hubs. If the processing of the outer diameters cannot be avoided, be sure to consult your TSUBAKI representative.

3-4 Sprocket Surface Processing

Be sure to follow the instructions bellow when performing the surface processing of standard sprockets, such as plating or black oxide finish coating.

- The surface of a standard sprocket is coated with rust preventing oil or paint, which must be removed perfectly.
- Take a measure for hydrogen brittleness prevention before conducting the electrolytic plating of standard sprockets provided with hardened teeth.

4. Trial Operation

Conduct a test operation of sprockets with a roller chain applied before the sprocket comes into full operation. Check the following items.

4-1 Pre-Test Run

- 1) Connecting link plates, clips, and cotter pins are installed correctly.
- 2) Chain slack has been properly adjusted.
- 3) Adequate lubrication is available.
- 4) The chain isn't touching any objects, such as chain cases, etc.
- 5) There are no obstacles in the chain operating area, and all is clean.

4-2 Test-Run

- 1) Sound. There should be no strange noises. Make sure the chain doesn't touch the case.
- 2) Vibration. Look for excessive chain vibration.
- 3) Sprocket-chain interaction. Make sure the chain doesn't climb over the sprockets.
- 4) Sprocket. Ensure that the chain disengages smoothly from the sprocket.
- 5) Chain articulation. The chain should articulate smoothly.

If you notice any of these conditions, do not begin operation. Correct any problems before proceeding any further.

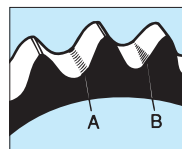
5. Lubrication

Generally, sprockets and roller chain are lubricated in the same manner.

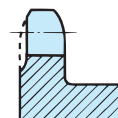
6. Inspection

- ① Chain and sprocket engagement can be checked by observing the roller and surface of the teeth. Proper engagement is when the contact area is uniform with point A in the illustration. If the contact area is lop-sided or the sides of the teeth are wearing away (point B), this may have been caused from improper installation of the sprockets or twisting of the roller chain. In this case, rechecking/readjustment is necessary.
- ② The normal point of impact is slightly up from the tooth bottom. However, when initial tension is applied to the chain and tension remains on the slack side, the roller will slightly touch the tooth bottom. However, point A receives the strongest impact.

- ③ When idlers or tensioners are used, the contact area will be the center of the tooth bottom.



B: Improper installation



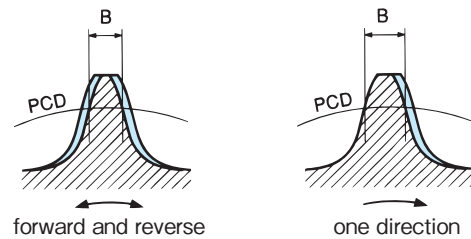
Improper installation causes the surface of the teeth to become ground down.

Contact area of the sprocket teeth.

- ④ When wear on the teeth reaches the values in the following table, lifespan of the sprocket has been reached. For a sprocket with induction hardened teeth, the lifespan is reached when the hardened layer has been removed.

**Limit of usage based on tooth thickness/Dimension B
(2/3 of new one)**

Size of RS Roller chain	Dimension B		Size of BS Roller chain	Dimension B Normal
	Normal	Pin gear		
RS11	0.6	–	RF06B	1.6
RS15	1.1	–	RS08B	2.1
RS25	1.5	–	RS10B	2.9
RS35	2.5	–	RS12B	3.6
RS41	2.6	–	RS16B	5.0
RS40	2.5	3.1	RS20B	6.8
RS50	2.9	3.6	RS24B	7.2
RS60	3.7	4.6	RS28B	8.6
RS80	5.0	6.3	RS32B	11.9
RS100	6.9	8.6	RS40B	12.7
RS120	8.7	10.9		
RS140	10.6	13.3		
RS160	12.4	15.5		
RS180	11.3	14.1		
RS200	12.6	15.8		
RS240	15.1	18.9		
RF320T	19.9	24.9		
RF400T	24.9	31.2		



- ⑤ If a new roller chain is run on a worn sprocket, the chain will wear at a faster rate than normal. In this case, when replacing the chain, replacement of the sprocket is also recommended.

7. Troubleshooting

① Abnormal wear of sprocket teeth

Possible cause	Improper lubrication. Acceleration of wear resulting from dust, abrasion powder, and dirt.
Remedy	Lubrication satisfying the operating conditions. Dust, abrasion powder, and dirt cleaning and preventive measures. Replacement with a sprocket provided with hardened teeth.

② Abnormal wear on the side of sprocket teeth

Possible cause	Improper installation. Improper sprocket fixation.
Remedy	Corrections to sprocket and shaft installation. Corrections to loosened fixation parts, such as setscrews. Sprocket and chain replacement.

③ Rust

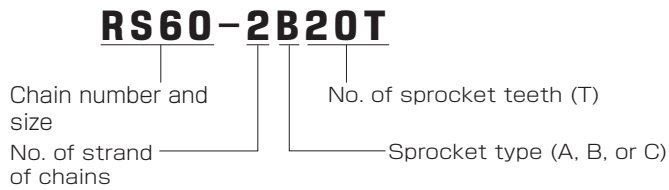
Possible cause	Improper lubrication. Inferior atmosphere.
Remedy	Lubrication meeting the operating conditions. Protection from the inferior atmosphere with an appropriate component, such as a casing.

8. Storage

If sprockets are stored for more than a year, clean the sprockets at 1-year intervals, completely remove the dust and oil on the sprockets, and apply anticorrosion oil to the machined surfaces, such as the teeth and bore.

9. Sprocket Ordering Information

9-1 Model No.



9-2 Concrete Order Example

Standard sprocket	RS50 - 1B20T	n (no. of units)
Fit bore sprocket	RS50 - 1B20T - H25J	n (no. of units)
Stainless steel sprocket	RS50 - <u>1B20T - SS</u>	n (no. of units)
Lock sprocket	RS50 - <u>1B20T - S4825A</u>	n (no. of units)

9-3 Precautions for Replacement

- ① Chain number and number of strand
- ② Sprocket type
- ③ Bore dia.
- ④ No. of teeth
- ⑤ Hub outer dia. and length
- ⑥ Existence of teeth hardening
- ⑦ Engraved markings

If the chain number is unknown, the following information is required as well.

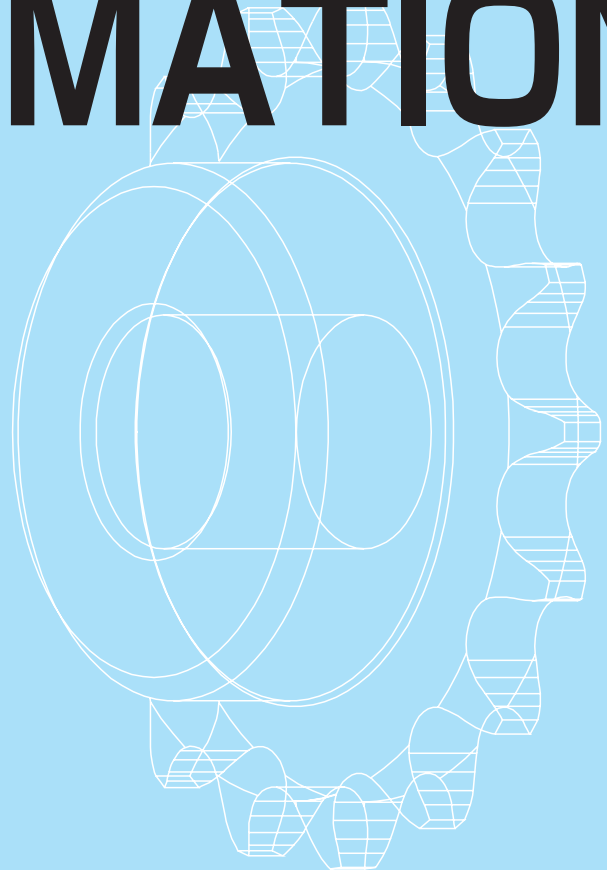
- ⑧ Tooth width
- ⑨ Tooth bottom dia.

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RS

SPECIAL SPROCKETS

PRODUCT INFORMATION



Sprockets for TSUBAKI Chain-type Pin Gears

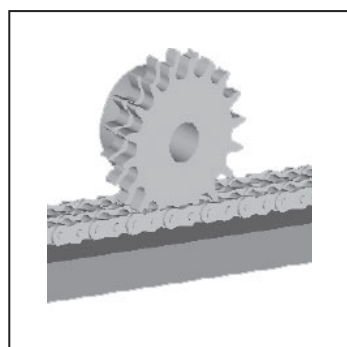
The pin gear drive is a method to move objects by utilizing the relative motion of a fixed roller chain and sprockets engaging with it. The following table shows the comparison between pin gear drive and gear rack systems.

	Layout flexibility	Precision	Cost	Durability
Pin gear	◎	△	○	○
Gear rack	×	○	△	△

● Pin gear drive system

The pin gear drive system is classified into three types, i.e., linear, inner, and outer types.

Linear Drive



Inner Drive



Outer Drive



Pin gear sprockets used for transmission are different in chain engagement from usual sprockets used for winding transmission. Therefore, special tooth profile are required.

TSUBAKI's unique theory realized the special tooth profile that realize smooth engagement with a minimal backlash. The tooth profile are changed for inner drive and outer drive, in particular, according to the mounting diameters of pin gear chains in use in order to realize optimum pin gear driving.

If you need a quotation for a sprocket for a pin gear drive system, fill out the inquiry sheet in the page on the right-hand side and send the form to TSUBAKI's sales office. This is essential in order to design the optimum tooth profile of the sprocket according to your application.

● Reference Dimensions

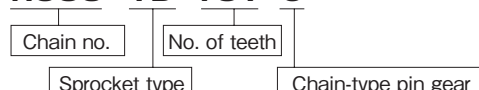
Number of Teeth of Pin Gear Sprocket

(Unit: mm)

	RS40		RS50		RS60		RS80		RS100		RS120		RS140		RS160	
Tooth width	7.3		8.9		11.9		15.0		18.0		24.0		24.0		30.0	
Number of teeth	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o	Pitch circle dia. D_P	Outer dia. D_o
15	62.29	70.9	77.77	88.1	93.32	106.3	124.17	141.8	155.09	177.9	186.11	212.8	216.94	247.7	247.94	282.2
16	66.33	75.1	82.82	93.3	99.38	112.6	132.26	150.1	165.19	188.1	198.23	224.9	231.09	261.6	264.11	298.4
17	70.37	79.3	87.87	98.6	105.45	119.0	140.34	158.6	175.30	198.2	210.36	237.0	245.24	275.7	280.28	314.6
18	74.42	83.5	92.93	103.9	111.51	125.3	148.43	167.1	185.41	208.3	222.49	249.2	259.39	289.9	296.45	330.7
19	78.46	87.8	97.98	109.1	117.57	131.5	156.51	175.4	195.51	218.4	234.62	261.3	273.54	304.0	312.62	346.9
20	82.50	92.0	103.03	114.3	123.64	137.9	164.60	183.7	205.62	228.5	246.74	273.4	287.69	318.2	328.79	363.1
21	86.54	96.0	108.09	119.6	129.70	144.0	172.68	191.7	215.73	238.6	258.87	285.5	301.84	332.3	344.96	379.3
22	90.56	100.1	113.14	124.9	135.77	150.1	180.77	199.8	225.83	248.7	271.00	297.7	315.99	346.5	361.13	395.4
23	94.63	104.1	118.19	130.2	141.83	156.1	188.85	207.9	235.94	258.8	283.13	309.8	330.14	360.6	377.30	411.6
24	98.67	108.2	123.24	135.4	147.89	162.2	196.94	216.0	246.04	268.9	295.25	321.9	344.28	374.8	393.47	427.8
25	102.71	112.2	128.30	140.5	153.96	168.2	205.02	224.1	256.15	279.0	307.38	334.1	358.43	388.9	409.64	443.9

● Model No.

RS80-1B 18T G



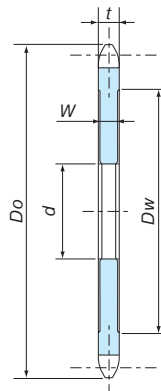
Inquiry Sheet for TSUBAKI Chain-type Pin Gear Sprockets

Name of company:	Phone:
Name of department:	Fax:
Name:	e-mail:
TSUBAKI product dealer:	

1	Application (Fill in the lower layout area for details.)		
2	Parts to which pin gear chain is attached		
3	Chain with pin gear attachment		
Chain size _____ Attachment Type _____ Chain length _____ Attachment interval _____			
4	Necessary transmission torque converted for sprocket mounting shaft		
Starting kN·m { kgf·m } Braking kN·m { kgf·m }			
5	Sprocket dimensions (Conforming to those of TSUBAKI's standard products unless otherwise specified.)		
Hub diameter(D_H) _____ Sprocket mounting shaft dia. _____ Sprocket length(L) _____			
6	Sprocket material(Carbon steel for machine structural use will apply unless otherwise specified.)		
7	Required number of sprockets		
Units _____ In case of continuous use: Units/month _____			
8	Other sprocket specifications (Surface treatment and other requirements, if any)		
9	Layout		

Sprockets for Torque Limiters

Torque limiters are typical mechanical devices for overload protection. The friction surface of the center member must be finished properly. This is essential for the precise and exact overload detection of the torque limiter. Dedicated sprockets for torque limiters are provided with special surface processing to maintain ideal surface roughness.



Time of delivery: Short time of delivery (within a week)

Sprockets with strong specifications will be produced 10 days after your order is received. Contact your TSUBAKI representative in the case of placing an order in large quantity.

● Manufacturer's recommended value: Old JIS 3S to 6S

● Sprockets for torque limiters: Ra 1.6 μm and under. (approx. 6S according to old JIS)

● Model No.

RS40-1A 20T-CM 30

Chain no. Sprocket type A Finished bore dia. d
No. of teeth Sprocket for torque limiter

Chain no.	RS40	RS50	RS60	RS80	RS100
W	6.5	8.0	10.5	13.5	16.5
t	7.3	8.9	11.9	15.0	18.0

● Operating conditions: Sprocket width > Torque limiter bushing width (The sprocket width must be larger than the bushing width.)

● All other dimensions are the same as those for standard sprockets of type 1A.

● Refer to the following table for the d and Dw ranges.

● The bore diameter (d) is H7 finished.

Note: Be sure to check with the torque limiter manufacturer's catalog for the dimensions of each part. Specify the model number of the torque limiter when placing your order.

■ Torque Limiter Conformity Table (Reference)

Number of teeth		16	17	18	19	20	21	22	23	24	25	26	27	28	30	32	34	35	36	38	40	42	45	$d \times Dw$
RS40 (See note)	TL200	30 $\times$ 53																						
	TL250																							
	TL350																							
RS50	TL250																							
	TL350																							
	TL500																							
RS60	TL350																							
	TL500																							
	TL700																							
RS80	TL500																							
	TL700																							
	TL1000																							
RS100	TL500																							
	TL700																							
	TL1000																							

Sprockets compatible with the torque limiters of each major manufacturer are available. Furthermore, TSUBAKI will respond to special size orders. For details, consult your TSUBAKI representative.

Note: Check the bushing width if the TL250 or TL350 is used in the case of RS40 sprockets.

Sprockets for BS Roller Chains (Meeting BS Standards)

Dedicated sprockets are required for BS roller chains.

Contact your TSUBAKI dealer for the price and the time for delivery of your desired product after checking the model number, dimensions, and specifications.

Time for delivery: Made to order

(Unit : mm)

RS chain number	BS chain specification			BS sprocket specification			
	Pitch	Roller dia.	Inner link inner width	Tooth width	Inner pitch dia.	Outer dia.	BS-to-RS corresponding no.
RF06B	9.53	6.35	5.72	5.30	The same in basic dimensions as the corresponding RS sprocket model.	Almost the same in basic dimensions as the corresponding RS sprocket model (or a little smaller as the case may be).	RF06B $\rightarrow$ RS35
RS08B	12.70	8.51	7.75	7.20			RS08B $\rightarrow$ RS40
RS10B	15.88	10.16	9.65	9.00			RS10B $\rightarrow$ RS50
RS12B	19.05	12.07	11.68	11.00			RS12B $\rightarrow$ RS60
RS16B	25.40	15.88	17.02	16.10			RS16B $\rightarrow$ RS80
RS20B	31.75	19.05	19.56	18.60			RS20B $\rightarrow$ RS100
RS24B	38.10	25.40	25.40	24.20			RS24B $\rightarrow$ RS120
RS28B	44.45	27.94	30.99	29.20			RS28B $\rightarrow$ RS140
RS32B	50.80	29.21	30.99	29.20			RS32B $\rightarrow$ RS160
RS40B	63.50	39.37	38.10	36.40			RS40B $\rightarrow$ RS200

● Model No.

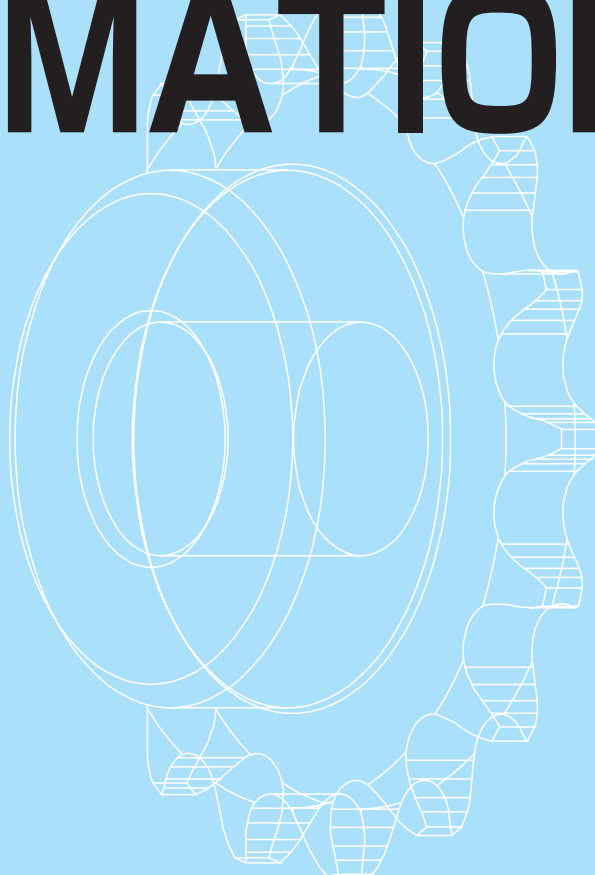
RS08B-1B20T

BS chain no. No. of teeth

Strand	Sprocket type
Single-strand: 1	Type A (flat) : A
Double-strand: 2	Type B (single hub) : B
	Type C (both hubs) : C

UNIT PRODUCTS

PRODUCT INFORMATION



Pin Gear Drive Unit

A GREAT IDEA FOR A COST-EFFECTIVE ROTARY AND STRAIGHT-LINE DRIVE!

A new drive system using a combination of a pin structure and a special gear

- Easy handling of equipment enlargement by applying unit structure
- Easy installation and smooth driving
- Space-saving equipment with good transmission performance

Uses: Turntable drive, Transport carriage drive, Pallet changer

PIN WHEEL

Use: Rotary Drive

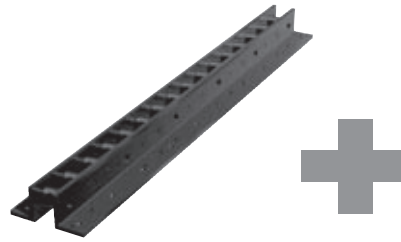


Model No.
PDU70 - W - 70P

Frame No. Pin Wheel Roller Qty

PIN RACK

Use: Linear Drive
Flat: FR
Angle: AR



Model No.
PDU55 - FR - 16P

Frame No. FR: Flat Roller Qty
AR: Angle

PIN GEAR

Use: Outer Drive: G
Inner Drive: N
Linear Drive: S

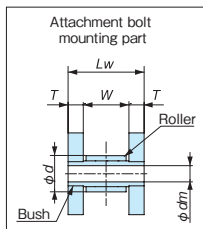
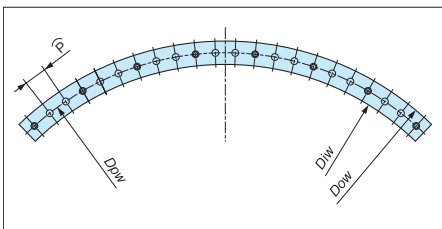
* Tooth form depends on use



Model No.
PDU90 - S - 1B 25T

Frame No. G: Outer Drive No. of teeth
N: Inner Drive Type
S: Linear Drive

● Pin Wheel Products and Specification



※ Roller dia. φd : Refer to P123

Frame No.	PDU20				PDU22				PDU30			
Specs	Pitch <i>P</i>	20			Pitch <i>P</i>	22			Pitch <i>P</i>	30		
	Overall Width <i>Lw</i>	21			Overall Width <i>Lw</i>	25			Overall Width <i>Lw</i>	31		
	Inside Width <i>W</i>	12			Inside Width <i>W</i>	16			Inside Width <i>W</i>	19		
	Plate Thickness <i>T</i>	4.5			Plate Thickness <i>T</i>	4.5			Plate Thickness <i>T</i>	6		
	Mounting Hole ϕd_m	4.5			Mounting Hole ϕd_m	4.5			Mounting Hole ϕd_m	6.4		
	Bolt Size	M4			Bolt Size	M4			Bolt Size	M6		
	Load Capacity of Tangent Lines <i>N</i>	4,680			Load Capacity of Tangent Lines <i>N</i>	7,700			Load Capacity of Tangent Lines <i>N</i>	12,800		
Roller Qty NT	Split Qty	Pitch Diameter <i>Dpw</i>	Diameter Out <i>Dow</i>	Diameter In <i>Diw</i>	Split Qty	Pitch Diameter <i>Dpw</i>	Diameter Out <i>Dow</i>	Diameter In <i>Diw</i>	Split Qty	Pitch Diameter <i>Dpw</i>	Diameter Out <i>Dow</i>	Diameter In <i>Diw</i>
70	1	445.63	468	423	1	490.20	515	466	1	668.45	701	636
80	1	509.30	532	487	1	560.23	585	536	1	763.94	796	731
90	1	572.96	595	550	1	630.25	655	606	3	859.44	892	827
100	1	636.62	659	614	1	700.28	725	676	3	954.93	987	922
110	1	700.28	723	678	1	770.31	795	746	3	1050.42	1083	1018
120	1	763.94	786	741	3	840.34	865	816	3	1145.92	1178	1113
130	3	827.61	850	805	3	910.37	935	886	3	1241.41	1274	1209
140	3	891.27	914	869	3	980.39	1005	956	3	1336.90	1369	1304
150	3	954.93	977	932	3	1050.42	1075	1026	4	1432.39	1465	1400
160	3	1018.59	1041	996	3	1120.45	1145	1096	4	1527.89	1560	1495
170	3	1082.25	1105	1060	3	1190.48	1215	1166	4	1623.38	1656	1591
180	3	1145.92	1168	1123	4	1260.51	1285	1236	4	1718.87	1751	1686
190	3	1209.58	1232	1187	4	1330.54	1355	1306	6	1814.37	1847	1782
200	4	1273.24	1296	1251	4	1400.56	1425	1376	6	1909.86	1942	1877
220	4	1400.56	1423	1378	4	1540.62	1565	1516	6	2100.85	2133	2068
240	4	1527.89	1550	1505	6	1680.68	1705	1656	6	2291.83	2324	2259
260	6	1655.21	1678	1633	6	1820.73	1845	1796	6	2482.82	2515	2450
280	6	1782.54	1805	1760	6	1960.79	1985	1936	8	2673.80	2706	2641
300	6	1909.86	1932	1887	6	2100.85	2125	2076	8	2864.79	2897	2832

We can produce other racks with different roller quantity.

Pin Gear Drive Unit

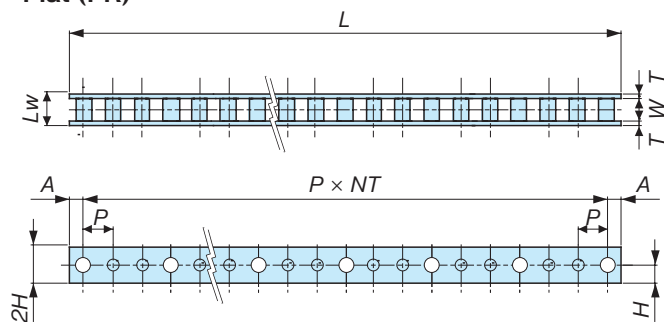
Frame No.	PDU35				PDU40				PDU50				PDU55			
Specs	Pitch P	35			Pitch P	40			Pitch P	50			Pitch P	55		
	Overall Width L_w	40			Overall Width L_w	46			Overall Width L_w	52			Overall Width L_w	60		
	Inside Width W	22			Inside Width W	28			Inside Width W	28			Inside Width W	36		
	Plate Thickness T	9			Plate Thickness T	9			Plate Thickness T	12			Plate Thickness T	12		
	Mounting Hole ϕd_m	9			Mounting Hole ϕd_m	10.8			Mounting Hole ϕd_m	12.8			Mounting Hole ϕd_m	12.8		
	Bolt Size	M8			Bolt Size	M10			Bolt Size	M12			Bolt Size	M12		
	Load Capacity of Tangent Lines N	19,500			Load Capacity of Tangent Lines N	27,300			Load Capacity of Tangent Lines N	31,700			Load Capacity of Tangent Lines N	52,900		
Roller Qty NT	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}
70	3	779.86	820	739	3	891.27	940	843	3	1114.08	1170	1059	3	1225.49	1290	1161
80	3	891.27	932	851	3	1018.59	1067	970	3	1273.24	1329	1218	3	1400.56	1465	1336
90	3	1002.68	1043	962	3	1145.92	1194	1097	3	1432.39	1488	1377	4	1575.63	1640	1511
100	3	1114.08	1155	1074	3	1273.24	1322	1225	4	1591.55	1647	1536	4	1750.70	1815	1686
110	3	1225.49	1266	1185	3	1400.56	1449	1352	4	1750.70	1806	1695	6	1925.77	1990	1861
120	3	1336.90	1377	1296	3	1527.89	1576	1479	4	1909.86	1965	1854	6	2100.85	2165	2036
130	3	1448.31	1489	1408	4	1655.21	1704	1607	6	2069.01	2125	2014	6	2275.92	2340	2211
140	3	1559.72	1600	1519	4	1782.54	1831	1734	6	2228.17	2284	2173	6	2450.99	2515	2386
150	4	1671.13	1712	1631	4	1909.86	1958	1861	6	2387.32	2443	2332	6	2626.06	2691	2562
160	4	1782.54	1823	1742	6	2037.18	2086	1989	6	2546.48	2602	2491	8	2801.13	2866	2737
170	4	1893.94	1934	1853	6	2164.51	2213	2116	6	2705.63	2761	2650	8	2976.20	3041	2912
180	6	2005.35	2046	1965	6	2291.83	2340	2243	8	2864.79	2920	2809	8	3151.27	3216	3087
190	6	2116.76	2157	2076	6	2419.16	2468	2371	8	3023.94	3079	2968	8	3326.34	3391	3262
200	6	2228.17	2269	2188	6	2546.48	2595	2498	8	3183.10	3239	3128	8	3501.41	3566	3437
220	6	2450.99	2491	2410	8	2801.13	2850	2753	8	3501.41	3557	3446	10	3851.55	3916	3787
240	6	2673.80	2714	2633	8	3055.77	3104	3007	10	3819.72	3875	3764	10	4201.69	4266	4137
260	8	2896.62	2937	2856	8	3310.42	3359	3262	10	4138.03	4194	4083	12	4551.83	4616	4487
280	8	3119.44	3160	3079	8	3565.07	3614	3517	10	4456.34	4512	4401	12	4901.97	4966	4837
300	8	3342.25	3383	3302	10	3819.72	3868	3771	12	4774.65	4830	4719	12	5252.11	5317	5188

We can produce other racks with different roller quantity.

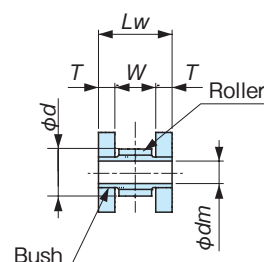
Frame No.	PDU70				PDU80				PDU90				PDU120			
Specs	Pitch P	70			Pitch P	80			Pitch P	90			Pitch P	120		
	Overall Width L_w	72			Overall Width L_w	74			Overall Width L_w	90			Overall Width L_w	112		
	Inside Width W	40			Inside Width W	42			Inside Width W	52			Inside Width W	68		
	Plate Thickness T	16			Plate Thickness T	16			Plate Thickness T	19			Plate Thickness T	22		
	Mounting Hole ϕd_m	17			Mounting Hole ϕd_m	17			Mounting Hole ϕd_m	22			Mounting Hole ϕd_m	32		
	Bolt Size	M16			Bolt Size	M16			Bolt Size	M20			Bolt Size	M30		
	Load Capacity of Tangent Lines N	60,700			Load Capacity of Tangent Lines N	71,500			Load Capacity of Tangent Lines N	98,900			Load Capacity of Tangent Lines N	122,500		
Roller Qty NT	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}	Split Qty	Pitch Diameter D_{pw}	Diameter Out D_{ow}	Diameter In D_{iw}
60	4	1336.90	1409	1264	4	1527.89	1608	1447	6	1718.87	1815	1622	6	2291.83	2442	2141
70	4	1559.72	1632	1487	4	1782.54	1863	1702	6	2005.35	2102	1909	8	2673.80	2824	2523
80	6	1782.54	1855	1710	6	2037.18	2118	1957	6	2291.83	2388	2195	8	3055.77	3206	2905
90	6	2005.35	2078	1933	6	2291.83	2372	2211	6	2578.31	2675	2482	8	3437.75	3588	3287
100	6	2228.17	2301	2156	6	2546.48	2627	2466	8	2864.79	2961	2768	10	3819.72	3970	3669
110	6	2450.99	2523	2378	8	2801.13	2882	2721	8	3151.27	3248	3055	10	4201.69	4352	4051
120	8	2673.80	2746	2601	8	3055.77	3136	2975	8	3437.75	3534	3341	12	4583.66	4734	4433
130	8	2896.62	2969	2824	8	3310.42	3391	3230	10	3724.23	3821	3628	12	4965.63	5116	4815
140	8	3119.44	3192	3047	10	3565.07	3646	3485	10	4010.70	4107	3914				
150	8	3342.25	3415	3270	10	3819.72	3900	3739	10	4297.18	4394	4201				
160	10	3565.07	3638	3493	10	4074.37	4155	3994	12	4583.66	4680	4487				
170	10	3787.89	3860	3715	10	4329.01	4410	4249	12	4870.14	4967	4774				
180	10	4010.70	4083	3938	12	4583.66	4664	4503	12	5156.62	5253	5060				
190	10	4233.52	4306	4161	12	4838.31	4919	4758								
200	12	4456.34	4529	4384	12	5092.96	5173	5012								
220	12	4901.97	4974	4829												
240	12	5347.61	5420	5275												

● Pin Rack Products and Specification

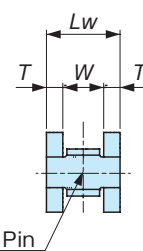
Flat (FR)



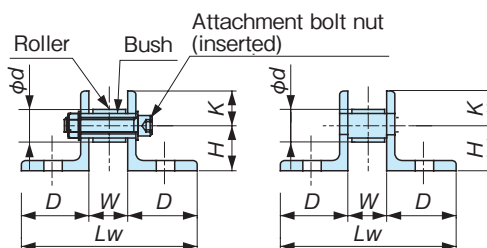
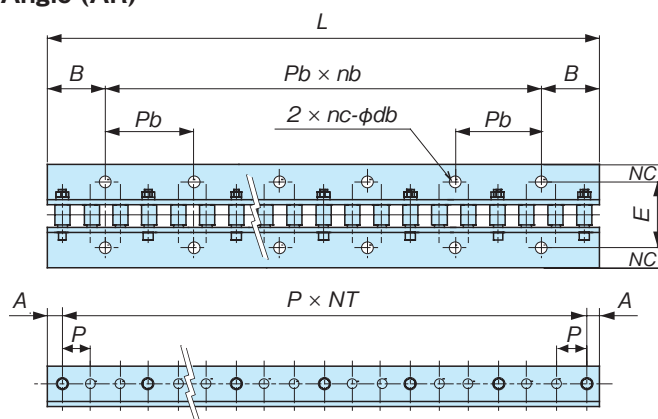
Attachment bolt mounting part



Fixed pin part



Angle (AR)



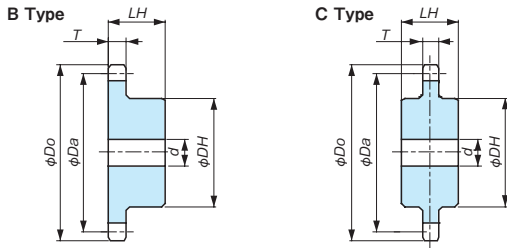
Flat (FR) Dimensions (Attachment Bolts Not Included)

Frame number	Pitch P	Roller Diameter ϕd	Roller Quantity NT	Length Between Pins $P \times NT$	Pin Location A	Overall Length L	Plate Thickness T	Inside Width W	Overall Width Lw	Frame Height $2H$	Mounting Hole ϕdm	Bolt Size M	Mass kg	Load Capacity of Tangent Lines N
PDU20	20	10.16	40	780	10	800	4.5	12	21	22	4.5	M4	1.4	4,680
PDU22	22	11.91	40	858	11	880	4.5	16	25	25	4.5	M4	1.8	7,700
PDU30	30	15.88	43	1260	15	1290	6	19	31	32	6.5	M6	4.7	12,800
PDU35	35	19.05	40	1365	17.5	1400	9	22	40	38	9	M8	8.8	19,500
PDU40	40	22.23	34	1320	20	1360	9	28	46	45	10.8	M10	10.4	27,300
PDU50	50	25.4	28	1350	25	1400	12	28	52	65	12.8	M12	19.1	31,700
PDU55	55	28.58	25	1320	27.5	1375	12	36	60	65	12.8	M12	19.6	52,900
PDU70	70	35.71	19	1260	35	1330	16	40	72	75	17	M16	29.0	60,700
PDU80	80	39.68	16	1200	40	1280	16	42	74	90	17	M16	33.3	71,500
PDU90	90	47.63	13	1080	45	1170	19	52	90	100	22	M20	41.1	98,900
PDU120	120	63.5	10	1080	60	1200	22	68	112	150	32	M30	72.7	122,500

Angle (AR) Dimensions (Attachment Bolts Not Included)

Frame number	Pitch P	Roller Diameter ϕd	Roller Quantity NT	Length Between Pins $P \times NT$	Overall Length L	Angle Width D	Inside Width W	Overall Width Lw	Center height		Attachment Hole Location				Attachment Hole		Mass kg	Load Capacity of Tangent Lines N
									H	K	E	B	Pb	$Pb \times nb$	nc	ϕdb		
PDU20	20	10.16	40	780	800	30	12	72	20	10	56	30	148	740	6	9	2.5	4,680
PDU22	22	11.91	40	858	880	40	16	96	27	13	60	30	164	820	6	11	2.8	7,700
PDU30	30	15.88	43	1260	1290	50	19	119	28	17	69	29	176	1232	8	13.5	5.2	12,800
PDU35	35	19.05	40	1365	1400	50	22	122	30	20	76	35	190	1330	8	13.5	7.5	19,500
PDU40	40	22.23	34	1320	1360	50	28	128	28	22	88	36	184	1288	8	13.5	7.8	27,300
PDU50	50	25.4	28	1350	1400	65	28	158	40	25	104	42	188	1316	8	17.5	12.8	31,700
PDU55	55	28.58	25	1320	1375	65	36	166	37	28	112	53	211.5	1269	7	17.5	13.4	52,900
PDU70	70	35.71	19	1260	1330	75	40	190	43	32	130	68	199	1194	7	17.5	21.4	60,700
PDU80	80	39.68	16	1200	1280	90	42	222	55	35	142	82	224	1120	6	22	26.0	71,500
PDU90	90	47.63	13	1080	1170	100	52	252	55	45	162	90	165	990	7	22	28.8	98,900
PDU120	120	63.5	10	1080	1200	150	68	368	85	65	232	120	160	960	7	33	61.2	122,500

● Pin Gear Products and Specification



Material	S45C
Structure	B Type, C Type
Hardening of Teeth	Induction Hardening
Bore Finishing	Specified Dimension, Tolerance

- We process LH DH dimensions to your specifications
- Welded construction for outer diameters over 250mm
- Outline shape (Do) may change slightly depending on drive purpose and No. of teeth

We can produce pin gears with different No. of teeth.

Frame No.	PDU20					PDU22					PDU30					PDU35				
Specs	Pitch <i>P</i>		20			Pitch <i>P</i>		22			Pitch <i>P</i>		30			Pitch <i>P</i>		35		
	Roller Diameter		10.16			Roller Diameter		11.91			Roller Diameter		15.88			Roller Diameter		19.05		
	Tooth Width <i>T</i>		9			Tooth Width <i>T</i>		12			Tooth Width <i>T</i>		15			Tooth Width <i>T</i>		18		
No. of teeth	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>
11	72.43	85	12.7	43	20	80.03	95	12.7	45	30	108.44	129	15.9	65	50	126.55	151	23	75	80
12	78.59	91	12.7	49	20	86.83	102	12.7	50	40	117.79	138	19.0	75	50	137.49	162	23	85	80
14	91.13	105	12.7	50	30	100.44	115	15.9	60	40	136.49	157	19.0	80	50	159.57	184	23	110	90
16	103.66	116	12.7	50	30	114.05	129	15.9	70	40	155.39	176	19.0	80	60	181.65	206	28	120	100
18	116.19	129	12.7	60	30	127.85	143	15.9	70	50	174.29	194	19.0	90	60	203.74	228	28	120	100
20	128.72	141	12.7	60	30	141.66	157	15.9	70	50	192.99	213	23.0	90	70	225.82	250	28	130	100
22	141.46	154	15.9	60	40	155.66	171	15.9	70	50	212.08	232	23.0	90	70	247.90	272	33	130	110
24	153.99	167	15.9	60	40	169.47	184	18.0	70	50	230.98	251	23.0	100	70	269.58	294	33	130	110
26	166.72	179	18.0	60	40	183.47	198	18.0	80	50	250.08	270	28.0	100	80	291.86	316	33	137	120
28	179.25	192	18.0	60	40	197.28	212	18.0	80	60	268.98	289	28.0	100	80	313.94	338	33	137	120
30	191.99	205	18.0	70	40	211.28	226	18.0	80	60	288.08	308	28.0	100	80	336.23	360	33	137	120

Frame No.	PDU40					PDU50					PDU55					PDU70				
Specs	Pitch <i>P</i>		40			Pitch <i>P</i>		50			Pitch <i>P</i>		55			Pitch <i>P</i>		70		
	Roller Diameter		22.23			Roller Diameter		25.4			Roller Diameter		28.58			Roller Diameter		35.71		
	Tooth Width <i>T</i>		24			Tooth Width <i>T</i>		24			Tooth Width <i>T</i>		30			Tooth Width <i>T</i>		34		
No. of teeth	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>
11	145.66	174	28	90	80	181.47	214	33	100	90	200.18	237	33	120	140	252.30	298	43	160	150
12	157.79	186	28	100	90	196.59	229	33	110	100	216.08	253	33	135	140	273.98	320	43	170	160
14	182.65	211	28	120	100	227.62	260	33	130	110	250.30	287	33	160	140	317.94	364	43	180	160
16	207.72	236	33	120	100	259.05	292	33	140	120	284.91	322	33	170	150	362.11	408	43	190	160
18	232.58	261	33	130	100	290.48	323	33	140	130	319.53	356	33	170	160	406.07	452	43	190	170
20	257.85	286	33	130	110	321.91	354	33	150	140	354.14	391	33	180	160	450.43	496	43	200	190
22	283.31	312	33	140	120	353.74	386	33	150	140	389.15	426	38	180	160	495.00	541	63	210	190
24	308.18	337	33	140	120	384.97	417	33	157	140	423.57	460	38	190	170	538.76	585	63	210	190
26	333.64	362	33	140	130	416.80	449	38	157	140	458.58	495	38	190	170	583.32	629	63	220	200
28	358.91	387	33	147	140	448.23	481	38	157	140	493.20	530	38	200	180	627.49	673	63	230	210
30	384.37	413	33	147	140	480.06	513	38	167	150	528.21	565	38	200	190	672.05	718	63	230	220

Frame No.	PDU80					PDU90					PDU120				
Specs	Pitch <i>P</i>		80			Pitch <i>P</i>		90			Pitch <i>P</i>		120		
	Roller Diameter		39.68			Roller Diameter		47.63			Roller Diameter		63.5		
	Tooth Width <i>T</i>		36			Tooth Width <i>T</i>		45			Tooth Width <i>T</i>		60		
No. of teeth	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>	Pitch Circle Dia. ϕDa	Outer Dia. ϕDo	Pilot Bore Dia. ϕd	Hub Dia. ϕDH	Hub Length <i>LH</i>
11	288.11	339	43	180	150	325.13	387	43	210	180	435.17	517	63	250	240
12	312.78	364	43	190	160	352.77	414	43	220	190	472.37	554	63	260	240
14	363.11	414	43	200	180	409.07	470	43	230	210	546.76	629	63	270	250
16	413.64	465	43	210	200	465.97	527	63	240	230	621.15	703	63	280	260
18	463.97	515	43	220	200	522.66	584	63	250	250	696.95	779	63	290	280
20	514.50	566	63	230	200	579.56	641	63	260	250	772.54	855	68	300	300
22	565.43	617	63	230	210	636.85	698	63	270	260	848.94	931	68	310	320
24	615.55	667	63	240	230	692.95	754	63	270	260	923.73	1006	68	320	320
26	666.48	718	63	250	240	750.25	812	63	280	260	1000.13	1082	68	330	330
28	717.01	768	63	250	250	806.94	868	63	290	270	1075.92	1158	68	340	350
30	767.94	819	63	250	260	864.24	926	63	290	280	1152.32	1234	68	350	360

Backlash Amount (Reference)

measurement : mm

	PDU20	PDU22	PDU30	PDU35	PDU40	PDU50	PDU55	PDU70	PDU80	PDU90	PDU120
MIN	0.26	0.32	0.32	0.33	0.41	0.53	0.61	0.86	0.89	0.97	1.3
MAX	0.47	0.57	0.66	0.88	0.86	0.98	1.06	1.24	1.2	1.42	1.57

(*above numbers are from calculation. For small backlash, please request a quote)

● Selection Procedure

1. Selecting the pitch circle diameter of the pin gear drive unit

- (1) When rotary running Pre-select pitch circle diameter of pin wheel to suit equipment size.
Find out reduction gear ratio required, then pre-select pitch circle diameter of pin gear.
- (2) When straight-line running Pre-select pitch circle diameter of pin gear by necessary straight-line speed in relation to pin gear RPM.

2. Calculating correction loading

- Calculate load capacity of tangent lines which operating the pin wheel by load condition and pre-selected pitch circle diameter.
- Find out correction capacity of tangent lines by multiplying service factor (graph 1) and speed factor (graph 2) to load capacity of tangent lines, which is work out by running condition and spin speed of pin wheel.

3. Select pin gear unit model number

Using the load allowance and the correction tangent line power of each model number (pin wheel / pin rack), select the appropriate pin gear drive unit that satisfies the following condition:

Allowance tangent line loading > Correction loading

4. Select model number

- (1) **Pin gear:** From the selected pin gear drive unit model and pre-selected pin gear pitch circle diameter, choose the number of the pin gear having the number of teeth closest to the pitch circle diameter. Follow applicable number of teeth range for the pin gear (graph 3) by the type of drive.
- (2) **Pin wheel / pin rack:** From the selected pin gear drive unit and pin wheel, which is closest to the pre-selected pin wheel pitch circle diameter, choose the number or roller and finalize model. For the pin rack, find the total length of the rack via running distance or transfer intervals.

Service factor (graph 1)

Load Characteristics	Operating Hours/day		
	Within 3 HRS	Within 12 HRS	Within 24 HRS
Continuous Smooth Transmission	1.0	1.1	1.2
Continuous Impact Load	1.2	1.3	1.5
Intermittent One Direction	1.3	1.5	1.7
Intermittent Counter-clockwise Direction	1.5	1.7	2.0
Continuous Counter-clockwise Direction	1.8	2.0	2.5

Speed factor (graph 2)

Rotation Speed m/min	Speed Factor
0	1.02
10	1.04
15	1.05
20	1.06
25	1.06
30	1.07
35	1.08
40	1.1
50	1.2

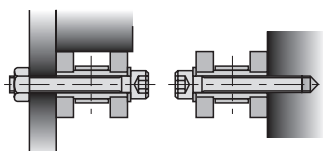
Applicable number of teeth range for pin gear (graph 3) (○ mark = applicable item △ mark = applicable depend on application. Please consult TSUBAKI.)

No. of Teeth	Straight-line Rack	Roller Qty - Outer Driven Pin Wheel								Roller Qty - Inner Driven Pin Wheel						
		60	70	80	100	150	200	250	300	60	70	80	100	150	200	250
11	×	×	×	×	×	×	×	×	×	○	○	○	○	×	×	×
12	△	×	×	×	×	×	×	×	×	○	○	○	○	○	○	○
13	○	×	×	×	×	×	△	△	△	○	○	○	○	○	○	○
14	○	×	×	△	△	△	△	△	△	○	○	○	○	○	○	○
15	○	△	△	△	△	△	△	△	△	○	○	○	○	○	○	○
16	○	△	△	△	△	△	△	△	△	○	○	○	○	○	○	○
17	○	△	△	△	△	△	△	△	○	○	○	○	○	○	○	○
18	○	△	△	△	△	△	△	○	○	○	○	○	○	○	○	○
19	○	△	△	△	△	○	○	○	○	○	○	○	○	○	○	○
20	○	△	△	△	△	○	○	○	○	○	○	○	○	○	○	○
21	○	△	△	○	○	○	○	○	○	○	○	○	○	○	○	○
22	○	△	○	○	○	○	○	○	○	○	○	○	○	○	○	○
23	○	△	○	○	○	○	○	○	○	○	○	○	○	○	○	○
24 and over	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● Installation

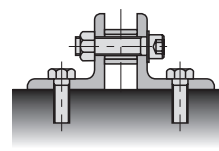
Pin wheel and flat type straight-line rack

As hollow pin is used on every 3rd pitch, it enables to fix the sides to the partnering equipment using it. On installation, you can decide the location by setting up a stopper or guide on one of the faces. Installation bolts are not included.



Angle Style

Angle style straight line rack can be fixed to the partner machine by using tightening bolt holes.



Inquiry Sheet for TSUBAKI Pin Gear Drive Units

Name of company: _____

Phone: _____

Name of department: _____

Fax: _____

Name: _____

E-mail: _____

TSUBAKI product dealer: _____

① Contents of inquiry

② Application (Fill in the lower layout area for details.)

③ Drive method and size (inevitable)

- ☐ Straight overall length mm
- ☐ Inner drive pin wheel dia. mm
- ☐ Outer drive

④ Gear dimensions

Pitch circle dia. mm

Outer diameter mm

No. of teeth

Specify if there are any reduction ratio or pin pitch requirements.

⑤ Tangential load (or torque)

Tangential load Steady N Max. N

Pin-gear axial conversion torque Steady N·m Max. N·m

※Inform us of the mass and friction coefficient of the object transferred.

⑥ Operating conditions

Speed: · Linear motion: Transfer speed m/min

· Rotational motion: Wheel rotational speed r/min

Operating hours hours/day Forward/Reverse motion Yes/No On-off frequency time/day

⑦ Other specifications (Specify if there are any particular conditions, such as operating environmental conditions and operation patterns.)

⑧ Layout

■ Safety Precautions

WARNING

Heed the information provided below for the prevention of danger.

- Perform maintenance/inspections on the product after checking that no torque is acting on the rotating shaft on the product or equipment side.
- The functional or performance degradation of the product may result from the mounting accuracy and load conditions of the product or the wear and life of parts in use. Take safety measures for the equipment side in advance while regularly performing maintenance/inspections.
- Follow your local safety regulations, if any.
- Follow the instructions below in the case of mounting, dismounting, maintaining, or inspecting the product.
 - Wear suitable clothes and protective gear (e.g., safety glasses, gloves, and shoes) for the work.
- Be sure to turn off the main power switch of the equipment in use. Furthermore, take preventive measures so that the switch will not be turned on abruptly.
- Read and heed the instructions in the operation manuals and catalogs before conducting the work.
- If a load is always imposed on the application (e.g., hoisting equipment), eliminate the load or take appropriate measures to prevent the load from falling before performing maintenance/inspections.

CAUTION

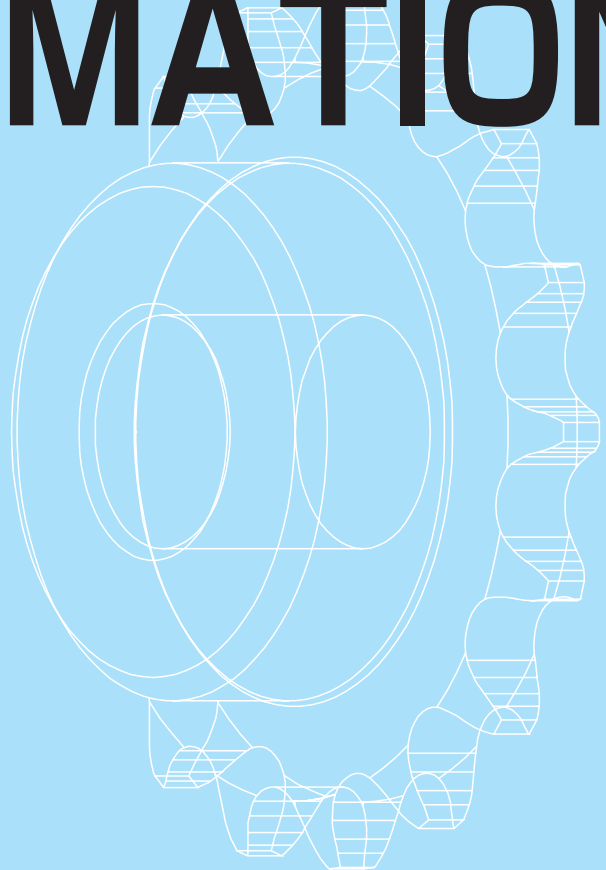
Heed the information provided below for the prevention of danger.

- Great force will act on the mount if the product is used for applications that start and stop the product frequently. Make sure that the mount is sturdy enough.
- The product is provided with an operation manual. Be sure to read the operation manual in advance and use the product correctly. Request the operation manual from your dealer or TSUBAKI sales office if the operation manual is not on hand.
- Make sure that the operation manual is delivered to the end user.

RF

SPROCKETS FOR DOUBLE PITCH CHAINS

PRODUCT INFORMATION



SPROCKETS FOR DOUBLE PITCH CHAINS

The following sprockets are dedicated to double pitch chains each provided with a flat plate and attachment used for conveyance applications. The pitch of each chain is twice as long as that of the standard type-A roller chain.

R-rollers and S-rollers are available, either one of which can be selected according to the application (see the chain catalog).

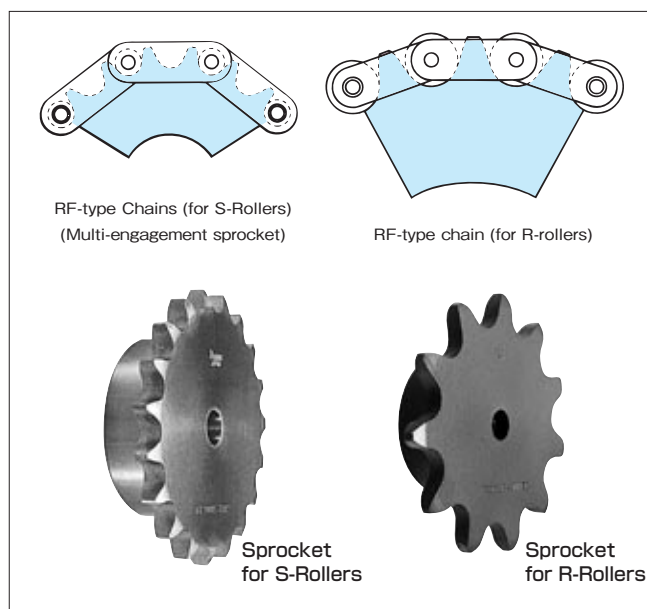
List of Corresponding Series

	Standard	Stainless steel Environmentally-resistant	Engineering plastic Environmentally-resistant	Fit bore (with finished bore)	Stainless steel fit bore (Environmentally-resistant/ with finished bore)	Lock Frictional tightening
RF2040S	○	○	△	○	○	○
RF2050S	○	○	△	○	○	○
RF2060S	○	○	△	○	○	○
RF2080S	○	○		○	○	○
RF2100S	○	○		○		○
RF2120S	○	○		○		
RF2160S	○	○				
RF2040R	○	○		○	△	○
RF2050R	○	○		○	△	○
RF2060R	○	○		○	△	○
RF2080R	○	○		○		○
RF2100R	○			○		○
RF2120R	○			○		
RF2160R	○					

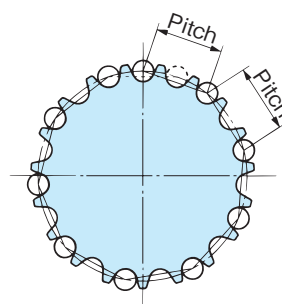
○ . . . Available

△ . . . Limitations on the numbers of teeth and models.

Engagement of Sprockets for Double pitch Chains



- 1) Double pitch chain sprockets for S-roller chains are of multi-engagement type, and the chains engage with every other tooth.
- 2) Teeth that actually engage are called effective teeth and the apparent number of teeth of a sprocket is referred to as the number of indexing teeth. An S-roller will engage with different tooth for every rotation of the sprocket. Therefore, the sprocket will have less wear and the life will be prolonged.



Use of RS Standard Sprockets

RS standard sprockets can be used with S-roller chains that have 30 or more indexing teeth. Other than the above cannot be used because the difference in pitch circle diameter is too large.

Number of indexing teeth	For S-roller chain
29 and under	Cannot be used
30 and over	Can be used

Corrosion Resistance of Environmentally-resistant Sprockets

The corrosion resistance of environmentally-resistant sprockets varies with the operating conditions. TSUBAKI does not guarantee the corrosion resistance characteristics shown in the following table. Use the information on the table only for reference, and check the corrosion resistance of the sprockets under actual operating conditions before determining the models.

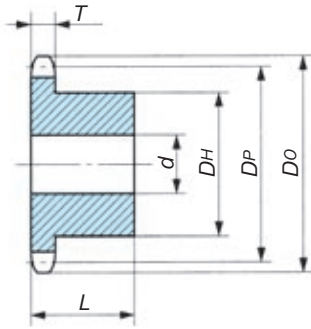
Chemical and Food		Engineering plastics	Stainless steel
Acetone	20°C	○	○
Oil (Vegetable oil and mineral oil)	20°C	○	○
Linseed oil	100% 20°C	○	○
Sulfurous acid gas (Permeated)	20°C	—	○
Alcohol (Methyl, ethyl, propyl, and butyl)		○	○
Ammonia solution	20°C	○	○
Whiskey	20°C	○	○
Ether (Ethyl ether)	20°C	○	○
Zinc chloride	50% 20°C	×	△
Ammonium chloride (Boiling point)	50%	—	△
Potassium chloride (Saturated)	20°C	○	○
Calcium chloride (Saturated)	20°C	○	△
Ferric chloride	5% 20°C	×	△
Sodium chloride	5% 20°C	○	○
Hydrochloric acid	2% 20°C	×	×
Gaseous chlorine (Dry)	20°C	×	△
Gaseous chlorine (Permeated)	20°C	×	×
Chlorine water		×	×
Oleic acid	20°C	○	○
Seawater	20°C	○	△
Sodium perchlorate	10%	—	○
Hydrogen peroxide	30% 20°C	×	○
Gasoline	20°C	○	○
Permanganic acid potassium (Saturated)	20°C	×	○
Formic acid	50% 20°C	×	○
Milk	20°C	○	○
Citrate	50% 20°C	○	○
Glycerin	20°C	○	○
Creosote	20°C	—	○
Chromic acid	5% 20°C	×	○
Catsup	20°C	○	○
Developing solution (Photograph)	20°C	○	○
Synthetic detergent		○	○
Coffee (Boiling point)		○	○
Cola syrup		○	○
Acetic acid	10% 20°C	△	○
Sugar solution	20°C	○	○
Calcium hypochlorite (Bleach)	20°C	△	○
Sodium hypochlorite	10% 20°C	△	×
Sodium cyanide	20°C	—	○
Carbon tetrachloride (Dry)	20°C	○	○
Potassium dichromate	10% 20°C	○	○
Oxalic acid	10% 20°C	○	○
Tartaric acid	10% 20°C	○	○
Nitric acid	5% 20°C	×	○

Chemical and Food		Engineering plastics	Stainless steel
Ammonium nitrate (Boiling point)		○	○
Beer	20°C	○	○
Picric acid (Saturated)	20°C	—	○
Fruit juice	20°C	○	○
Benzene	20°C	○	○
Boric acid	50% 100°C	—	○
Formalin (Formaldehyde)	40% 20°C	△	○
Mayonnaise	20°C	○	○
Water		○	○
Vegetable juice	20°C	○	○
Lard		—	○
Butyric acid	20°C	○	○
Hydrogen sulfide (Dry)		○	○
Hydrogen sulfide (Permeated)		—	×
Sulfuric acid	5% 20°C	×	×
Zinc sulfate (Saturated)	20°C	—	○
Aluminum sulfate (Saturated)	20°C	—	○
Ammonium sulfate (Saturated)	20°C	—	○
Sodium sulfate (Saturated)	20°C	—	○
Malic acid	50% 50°C	○	○
Phosphoric acid	5% 20°C	×	○
Phosphoric acid	10% 20°C	×	△
Wine	20°C	○	○
Potassium nitrate	25% 20°C	○	○
Potassium nitrate (Boiling point)	25%	○	○
Vinegar	20°C	○	○
Potassium hydroxide (Caustic potash)	20% 20°C	—	○
Calcium hydroxide (Slaked lime) (Boiling point)	20%	○	○
Sodium hydroxide (Caustic soda)	25% 20°C	○	○
Stearic acid (Boiling point)	100%	○	○
Soft drink	20°C	○	○
Carbolic acid	20°C	×	○
Petroleum	20°C	—	○
Soapsuds	20°C	○	○
Carbonated water		—	○
Sodium bicarbonate	20°C	○	○
Sodium carbonate (Saturated) (Boiling point)		×	○
Sodium subsulfite (Boiling point)	25%	○	○
Turpentine	35°C	×	○
Kerosene	20°C	×	○
Varnish		×	○
Concentrated nitric	65% 20°C	×	○
Concentrated nitric (Boiling point)	65%	○	○
Lactic acid	10% 20°C	○	○
Honey and syrup		—	○
Paraffin	20°C	×	○

- : Sufficiently corrosive resistant
△ : Corrosive resistant depending on operating conditions
× : Not corrosive resistant
— : Unknown

Standard Sprockets for Double pitch Chains

RF2040 · RF2050 · RF2060 · RF2080 · RF2100 · RF2120 · RF2160



● Model No.

RF2040 S 912T

Chain no.

Chain roller type

S-roller : S

R-roller : R

No. of effective teeth

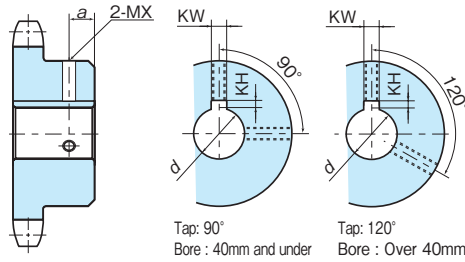
912T = 9 ½T

(Expressed as 1000T if the number of effective teeth is 10T.)

Product code	Model number	Roller type	No. of effective teeth	No. of indexing teeth	Pitch circle dia. D_P	Outer dia. D_O	Tooth width T	Bore dia. d		Hub		Approx. mass (kg)	Time for delivery
								Pilot bore	Max.	Dia. D_H	Length L		
H210001	RF2040S912T	S-roller	9 ½	19	78.23	84	7.3	12.7	38	60	25	0.6	○
H210002	RF2040S1012T		10 ½	21	86.17	92	7.3	12.7	46	69	25	0.9	○
H210003	RF2040S1112T		11 ½	23	94.14	99	7.3	12.7	50	77	25	1.0	○
H210005	RF2040S1200T		12	24	98.14	104	7.3	12.7	42	63	25	0.8	○
H210004	RF2040S1212T		12 ½	25	102.14	108	7.3	12.7	42	63	25	0.9	○
H210006	RF2050S912T		9 ½	19	97.78	105	8.9	15.9	48	73	28	1.1	○
H210007	RF2050S1012T		10 ½	21	107.72	115	8.9	15.9	48	73	28	1.2	○
H210008	RF2050S1112T		11 ½	23	117.68	125	8.9	15.9	48	73	28	1.3	○
H210010	RF2050S1200T		12	24	122.67	130	8.9	15.9	48	73	28	1.4	○
H210009	RF2050S1212T		12 ½	25	127.67	135	8.9	15.9	48	73	28	1.5	○
H210011	RF2060S912T		9 ½	19	117.34	126	11.9	15.9	55	83	40	2.1	○
H210012	RF2060S1012T		10 ½	21	129.26	138	11.9	18	55	83	40	2.3	○
H210013	RF2060S1112T		11 ½	23	141.22	150	11.9	18	55	83	45	2.7	○
H210015	RF2060S1200T		12	24	147.21	156	11.9	18	55	83	45	2.9	○
H210014	RF2060S1212T		12 ½	25	153.20	162	11.9	18	55	83	45	3.0	○
H210016	RF2080S912T		9 ½	19	156.45	167	15	23	63	93	40	3.4	○
H210017	RF2080S1012T		10 ½	21	172.35	184	15	23	63	93	40	3.8	○
H210018	RF2080S1112T		11 ½	23	188.29	200	15	28	75	107	45	5.0	○
H210020	RF2080S1200T		12	24	196.28	208	15	28	75	107	45	5.3	○
H210019	RF2080S1212T		12 ½	25	204.27	216	15	28	75	107	45	5.6	○
H210021	RF2100S912T		9 ½	19	195.57	209	18	28	75	107	50	5.9	○
H210022	RF2120S912T		9 ½	19	234.68	251	24	33	80	117	63	10.7	○
H210023	RF2160S912T		9 ½	19	312.90	335	30	33	103	147	71	22.3	○
H210024	RF2040R1000T	R-roller	10	-	82.20	93	7.3	12.7	32	52	25	0.7	○
H210025	RF2040R1100T		11		90.16	102	7.3	12.7	42	63	25	0.8	○
H210026	RF2040R1200T		12		98.14	108	7.3	12.7	42	63	25	0.9	○
H210027	RF2040R1300T		13		106.14	118	7.3	12.7	42	63	25	0.9	○
H210028	RF2040R1400T		14		114.15	127	7.3	12.7	42	63	25	1.0	○
H210029	RF2040R1500T		15		122.17	135	7.3	15.9	45	68	28	1.2	○
H210030	RF2040R1600T		16		130.20	143	7.3	15.9	45	68	28	1.3	○
H210031	RF2050R1000T		10	-	102.75	117	8.9	15.9	48	73	28	1.1	○
H210032	RF2050R1100T		11		112.70	127	8.9	15.9	48	73	28	1.3	○
H210033	RF2050R1200T		12		122.67	138	8.9	18	48	73	28	1.3	○
H210034	RF2050R1300T		13		132.67	148	8.9	18	48	73	28	1.5	○
H210035	RF2050R1400T		14		142.68	158	8.9	18	48	73	28	1.6	○
H210036	RF2050R1500T		15		152.71	168	8.9	18	48	73	28	1.8	○
H210037	RF2050R1600T		16		162.75	179	8.9	18	48	73	28	2.0	○
H210038	RF2060R1000T		10	-	123.29	140	11.9	18	55	83	45	2.4	○
H210039	RF2060R1100T		11		135.23	153	11.9	18	55	83	45	2.6	○
H210040	RF2060R1200T		12		147.21	165	11.9	18	55	83	45	2.8	○
H210041	RF2060R1300T		13		159.20	177	11.9	18	55	83	45	3.1	○
H210042	RF2060R1400T		14		171.22	190	11.9	18	55	83	45	3.4	○
H210043	RF2060R1500T		15		183.25	202	11.9	18	55	83	45	3.7	○
H210044	RF2060R1600T		16		195.29	214	11.9	18	55	83	45	4.0	○
H210045	RF2080R1000T		10	-	164.39	187	15	28	75	107	45	4.3	○
H210046	RF2080R1100T		11		180.31	204	15	28	75	107	45	4.8	○
H210047	RF2080R1200T		12		196.28	220	15	28	75	107	45	5.3	○
H210048	RF2080R1300T		13		212.27	237	15	28	75	107	45	5.9	○
H210049	RF2080R1400T		14		228.29	253	15	28	75	107	45	6.6	○
H210050	RF2080R1500T		15		244.33	269	15	28	75	107	45	7.3	○
H210051	RF2080R1600T		16		260.39	286	15	28	75	107	45	8.0	○
H210052	RF2100R1100T		11	-	225.39	254	18	33	80	117	56	7.9	○
H210053	RF2120R1100T		11	-	270.47	303	24	45	80	130	80	13.0	3W
H210054	RF2160R1100T		11	-	360.63	405	30	70	115	170	125	32.0	3W

Material: Carbon steel for machine structural use. No models are provided with hardened teeth.

Fit Bore Sprockets for Double pitch Chains RF2040 · RF2050 · RF2060 · RF2080 · RF2100



● Model No.

RF2040 R 912T - H 20 J

Chain no.	Bore tolerance: H7	Bore dia.	Keyway tolerance: Js9
Chain roller type S-roller: S R-roller: R	No. of effective teeth: 912T = 9½ T		

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		M8
More than 30 and up to 38	10		3.8	+0.2 0	M8
More than 38 and up to 44	12		4.3		M10
More than 44 and up to 50	14	±0.0215	4.4		M10
More than 50 and up to 58	16				
More than 58 and up to 65	18				

• Each model is provided with two setscrews made of alloyed metal.

For basic dimensions, refer to page 131 Standard (Steel) for Double pitch Chains.

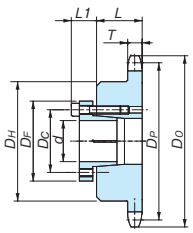
Product code	Model number	No. of effective teeth	Tap position <i>a</i>	List of finished bore diameters. <i>d</i>																								
				Bore diameters left blank are not available. The use of the bore processing service is recommended.																								
				Tap size																								
				M 5				M 6				M 8				M 10												
H220012	RF2040S912T-H □□ J	9 ½	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38										
H220008	RF2040S1012T-H □□ J	10 ½	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38		40	42	45						
H220009	RF2040S1112T-H □□ J	11 ½	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38		40	42	45	48	50				
H220010	RF2040S1200T-H □□ J	12	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38		40	42							
H220011	RF2040S1212T-H □□ J	12 ½	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38		40	42							
H220024	RF2050S912T-H □□ J	9 ½	8				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45		48					
H220020	RF2050S1012T-H □□ J	10 ½	8				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45		48					
H220021	RF2050S1112T-H □□ J	11 ½	8				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45		48					
H220022	RF2050S1200T-H □□ J	12	8				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220023	RF2050S1212T-H □□ J	12 ½	8				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220036	RF2060S912T-H □□ J	9 ½	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48		50	55			
H220032	RF2060S1012T-H □□ J	10 ½	12				17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48		50	55			
H220033	RF2060S1112T-H □□ J	11 ½	15						19	20	22	24	25	28	30	32	35	38	40	42	45	48		50	55			
H220034	RF2060S1200T-H □□ J	12	15						19	20	22	24	25	28	30	32	35	38	40	42	45	48		50	55			
H220035	RF2060S1212T-H □□ J	12 ½	15						19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220048	RF2080S912T-H □□ J	9 ½	12											25	28	30	32	35	38	40	42	45	48	50		55	60	
H220044	RF2080S1012T-H □□ J	10 ½	12											25	28	30	32	35	38	40	42	45	48	50		55	60	
H220045	RF2080S1112T-H □□ J	11 ½	15													30	32	35	38	40	42	45	48	50		55	60	65
H220046	RF2080S1200T-H □□ J	12	15													30	32	35	38	40	42	45	48	50		55	60	65
H220047	RF2080S1212T-H □□ J	12 ½	15													30	32	35	38	40	42	45	48	50	55	60	65	
H220050	RF2100S912T-H □□ J	9 ½	15												30	32	35	38	40	42	45	48	50	55	60	65		
H220001	RF2040R1000T-H □□ J	10	7	14	15	16	17	18	19	20	22	24	25	28	30	32												
H220002	RF2040R1100T-H □□ J	11	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42								
H220003	RF2040R1200T-H □□ J	12	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42								
H220004	RF2040R1300T-H □□ J	13	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42								
H220005	RF2040R1400T-H □□ J	14	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42								
H220006	RF2040R1500T-H □□ J	15	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45							
H220007	RF2040R1600T-H □□ J	16	7	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45							
H220013	RF2050R1000T-H □□ J	10					17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220014	RF2050R1100T-H □□ J	11					17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220015	RF2050R1200T-H □□ J	12							19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220016	RF2050R1300T-H □□ J	13							19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220017	RF2050R1400T-H □□ J	14							19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220018	RF2050R1500T-H □□ J	15							19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220019	RF2050R1600T-H □□ J	16							19	20	22	24	25	28	30	32	35	38	40	42	45	48						
H220025	RF2060R1000T-H □□ J	10							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220026	RF2060R1100T-H □□ J	11							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220027	RF2060R1200T-H □□ J	12							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220028	RF2060R1300T-H □□ J	13							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220029	RF2060R1400T-H □□ J	14							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220030	RF2060R1500T-H □□ J	15							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220031	RF2060R1600T-H □□ J	16							19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55				
H220037	RF2080R1000T-H □□ J	10														30	32	35	38	40	42	45	48	50	55	60		65
H220038	RF2080R1100T-H □□ J	11														30	32	35	38	40	42	45	48	50	55	60	65	
H220039	RF2080R1200T-H □□ J	12														30	32	35	38	40	42	45	48	50	55	60	65	
H220040	RF2080R1300T-H □□ J	13														30	32	35	38	40	42	45	48	50	55	60	65	
H220041	RF2080R1400T-H □□ J	14														30	32	35	38	40	42	45	48	50	55	60	65	
H220042	RF2080R1500T-H □□ J	15														30	32	35	38	40	42	45	48	50	55	60	65	
H220043	RF2080R1600T-H □□ J	16														30	32	35	38	40	42	45	48	50	55	60	65	
H220049	RF2100R1100T-H □□ J	11															35	38	40	42	45	48	50	55	60	65		

<Time for delivery> All products will be produced in three days.

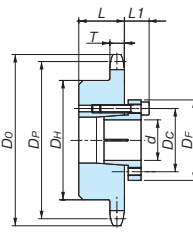
Material: Carbon steel for machine structural use. No models are provided with hardened teeth.

Lock S Type for Double pitch Chains

Type A



Type B



S-type Lock Sleeve Dimensions

Sleeve no.	D _f	D _c	L ₁	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.5	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

Model No.

RF2040 R 1000T - S 18 A

Chain no.	No. of effective teeth 1000T = 10	Bore dia.
Chain roller type S-roller : S R-roller : R	Lock sprocket S type	Mounting type A or B

Order example

Example: RF2040R, 10 effective teeth, mounting type A, rand bore dia. 15 mm

Product code	Model number
H231001	RF2040R1000T-S15A

The details of the models with handling precautions are the same as those provided for the RS Standard Lock S Type on page 66.

Sleeve Combinations and Dimensions for R-Rollers for Double pitch Chains

RF2040R	No. of effective teeth	Tooth width <i>T</i>	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>	Hub dia. <i>D_H</i>	Hub length <i>L</i>	Bore dia. <i>d</i>	15	16	17	18	19	20	22	24	25	28	30	32	35							
							Max. permissible transmission torque (N·m)	174	186	198	209	221	232	256	167	174	195										
															223	232	260	279	298	325							
	10	7.3	82.20	93	52	25	Applicable sleeve no. and dimensions	S2(5) <i>D_F</i> =42.0 <i>D_C</i> =32.0 <i>L</i> 1=14.0												S3(3) <i>D_F</i> =48.5 <i>D_C</i> =38.5 <i>L</i> 1=15.5					S4(4) <i>D_F</i> =56.0 <i>D_C</i> =46.0 <i>L</i> 1=15.5		
	11	7.3	90.16	102	63	25																					
	12	7.3	98.14	108	63	25																					
	13	7.3	106.14	118	63	25																					
	14	7.3	114.15	127	63	25																					
	15	7.3	122.17	135	68	28																					
	16	7.3	130.20	143	68	28																					

Each value in parentheses indicates the number of tightening bolts.

R-Rollers (Type A) for Double pitch Chains

Applicable bore dia. <i>d</i>														Model number
15	16	17	18	19	20	22	24	25	28	30	32	35		
Product code (Combination of above bore dia.)														
H23	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010				RF2040R1000T-S ☐ A
H23	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	RF2040R1100T-S ☐ A
H23	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	RF2040R1200T-S ☐ A
H23	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	RF2040R1300T-S ☐ A
H23	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	RF2040R1400T-S ☐ A
H23	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	RF2040R1500T-S ☐ A
H23	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	RF2040R1600T-S ☐ A
H23			1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	RF2050R1000T-S ☐ A
H23				1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	RF2050R1100T-S ☐ A
H23					1118	1119	1120	1121	1122	1123	1124	1125	1126	RF2050R1200T-S ☐ A
H23						1131	1132	1133	1134	1135	1136	1137	1138	RF2050R1300T-S ☐ A
H23							1143	1144	1145	1146	1147	1148	1149	RF2050R1400T-S ☐ A
H23								1154	1155	1156	1157	1158	1159	RF2050R1500T-S ☐ A
H23								1164	1165	1166	1167	1168	1169	RF2050R1600T-S ☐ A
H23								1174	1175	1176	1177	1178	1179	RF2060R1000T-S ☐ A
H23								1187	1188	1189	1190	1191	1192	RF2060R1100T-S ☐ A
H23									1200	1201	1202	1203	1204	RF2060R1200T-S ☐ A
H23										1212	1213	1214	1215	RF2060R1300T-S ☐ A
H23											1223	1224	1225	RF2060R1400T-S ☐ A
H23												1233	1234	RF2060R1500T-S ☐ A
H23													1242	RF2060R1600T-S ☐ A
Applicable bore dia. <i>d</i>														Model number
38	40	42	45	48	50	55	60	65	70					
Product code (Combination of above bore dia.)														Model number
H23	1100	1101	1102	1103										RF2050R1000T-S ☐ A
H23	1114	1115	1116	1117										RF2050R1100T-S ☐ A
H23	1127	1128	1129	1130										RF2050R1200T-S ☐ A
H23	1139	1140	1141	1142										RF2050R1300T-S ☐ A
H23	1150	1151	1152	1153										RF2050R1400T-S ☐ A
H23	1160	1161	1162	1163										RF2050R1500T-S ☐ A
H23	1170	1171	1172	1173										RF2050R1600T-S ☐ A
H23	1180	1181	1182	1183	1184	1185	1186							RF2060R1000T-S ☐ A
H23	1193	1194	1195	1196	1197	1198	1199							RF2060R1100T-S ☐ A
H23	1205	1206	1207	1208	1209	1210	1211							RF2060R1200T-S ☐ A
H23	1216	1217	1218	1219	1220	1221	1222							RF2060R1300T-S ☐ A
H23	1226	1227	1228	1229	1230	1231	1232							RF2060R1400T-S ☐ A
H23	1235	1236	1237	1238	1239	1240	1241							RF2060R1500T-S ☐ A
H23	1243	1244	1245	1246	1247	1248	1249							RF2060R1600T-S ☐ A
H23	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259				RF2080R1000T-S ☐ A
H23		1260	1261	1262	1263	1264	1265	1266	1267	1268				RF2080R1100T-S ☐ A
H23				1269	1270	1271	1272	1273	1274	1275				RF2080R1200T-S ☐ A
H23					1276	1277	1278	1279	1280	1281				RF2080R1300T-S ☐ A
H23							1282	1283	1284	1285				RF2080R1400T-S ☐ A
H23								1286	1287	1288				RF2080R1500T-S ☐ A
H23								1289	1290	1291				RF2080R1600T-S ☐ A
H23					1292	1293	1294	1295	1296	1297				RF2100R1100T-S ☐ A

Lock (S Type) for Double pitch Chains

■ Sleeve Combinations and Dimensions for R-Rollers for Double pitch Chains

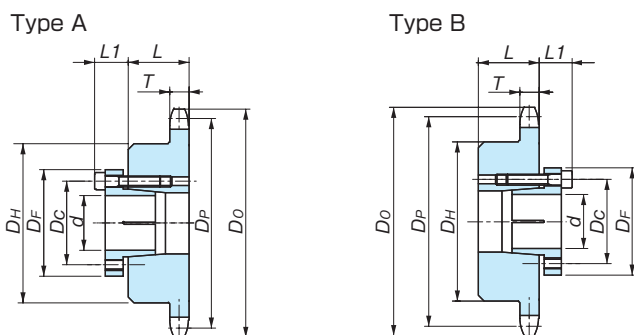
RF2050R	No. of effective teeth	Tooth width <i>T</i>	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>	Hub dia. <i>D_H</i>	Hub length <i>L</i>	Bore dia. <i>d</i>	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
							Max. permissible transmission torque (N·m)	237	251	265	279	307	446	465	521	558	595	651	442	465	488	523
							Applicable sleeve no. and dimensions	S2(6) <i>D_f</i> =42.0 <i>D_c</i> =32.0 <i>L</i> ₁ =14.0				S4(8) <i>D_f</i> =56.0 <i>D_c</i> =46.0 <i>L</i> ₁ =15.5						S5(5) <i>D_f</i> =66.0 <i>D_c</i> =56.0 <i>L</i> ₁ =17.5				
RF2060R	No. of effective teeth	Tooth width <i>T</i>	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>	Hub dia. <i>D_H</i>	Hub length <i>L</i>	Bore dia. <i>d</i>	24	25	28	30	32	35	38	40	42	45	48	50	55		
							Max. permissible transmission torque (N·m)	446	465	521	558	595	651	883	930	976	1046	1116	1162	1279		
							Applicable sleeve no. and dimensions	S4(8) <i>D_f</i> =56.0 <i>D_c</i> =46.0 <i>L</i> ₁ =15.5				S5(10) <i>D_f</i> =66.0 <i>D_c</i> =56.0 <i>L</i> ₁ =17.5						S6(6) <i>D_f</i> =80.0 <i>D_c</i> =68.0 <i>L</i> ₁ =21.0				
RF2080R	No. of effective teeth	Tooth width <i>T</i>	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>	Hub dia. <i>D_H</i>	Hub length <i>L</i>	Bore dia. <i>d</i>	38	40	42	45	48	50	55	60	65	70					
							Max. permissible transmission torque (N·m)	883	930	976	1046	1116	1162	1279	2140	2319	2497					
							Applicable sleeve no. and dimensions	S5(10) <i>D_f</i> =66.0 <i>D_c</i> =56.0 <i>L</i> ₁ =17.5				S6(6) <i>D_f</i> =80.0 <i>D_c</i> =68.0 <i>L</i> ₁ =21.0						S7(5) <i>D_f</i> =101.0 <i>D_c</i> = 86.0 <i>L</i> ₁ = 24.5				
RF2100R	No. of effective teeth	Tooth width <i>T</i>	Pitch circle dia. <i>D_p</i>	Outer dia. <i>D_o</i>	Hub dia. <i>D_H</i>	Hub length <i>L</i>	Bore dia. <i>d</i>	48	50	55	60	65	70									
							Max. permissible transmission torque (N·m)	2232	2325	2557	2140	2319	2497									
							Applicable sleeve no. and dimensions	S6(12) <i>D_f</i> =80.0 <i>D_c</i> =68.0 <i>L</i> ₁ =21.0				S7(5) <i>D_f</i> =101.0 <i>D_c</i> = 86.0 <i>L</i> ₁ = 24.5										

Each value in parentheses indicates the number of tightening bolts

■ R-Rollers (Type B) for Double pitch Chains

		Applicable bore dia. <i>d</i>													Model number	
		15	16	17	18	19	20	22	24	25	28	30	32	35		
Product code (Combination of above bore dia.)																
H23	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010						
H23	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	RF2040R1100T-S ☐ ☐ B		
H23	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	RF2040R1200T-S ☐ ☐ B		
H23	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	RF2040R1300T-S ☐ ☐ B		
H23	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	RF2040R1400T-S ☐ ☐ B		
H23	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	RF2040R1500T-S ☐ ☐ B		
H23	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	RF2040R1600T-S ☐ ☐ B		
H23			2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	RF2050R1000T-S ☐ ☐ B		
H23				2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	RF2050R1100T-S ☐ ☐ B		
H23					2118	2119	2120	2121	2122	2123	2124	2125	2126	RF2050R1200T-S ☐ ☐ B		
H23						2131	2132	2133	2134	2135	2136	2137	2138	RF2050R1300T-S ☐ ☐ B		
H23							2143	2144	2145	2146	2147	2148	2149	RF2050R1400T-S ☐ ☐ B		
H23								2154	2155	2156	2157	2158	2159	RF2050R1500T-S ☐ ☐ B		
H23								2164	2165	2166	2167	2168	2169	RF2050R1600T-S ☐ ☐ B		
H23								2174	2175	2176	2177	2178	2179	RF2060R1000T-S ☐ ☐ B		
H23								2187	2188	2189	2190	2191	2192	RF2060R1100T-S ☐ ☐ B		
H23									2200	2201	2202	2203	2204	RF2060R1200T-S ☐ ☐ B		
H23										2212	2213	2214	2215	RF2060R1300T-S ☐ ☐ B		
H23											2223	2224	2225	RF2060R1400T-S ☐ ☐ B		
H23												2233	2234	RF2060R1500T-S ☐ ☐ B		
H23													2242	RF2060R1600T-S ☐ ☐ B		
		Applicable bore dia. <i>d</i>													Model number	
		38	40	42	45	48	50	55	60	65	70					
Product code (Combination of above bore dia.)																
H23	2100	2101	2102	2103										RF2050R1000T-S ☐ ☐ B		
H23	2114	2115	2116	2117										RF2050R1100T-S ☐ ☐ B		
H23	2127	2128	2129	2130										RF2050R1200T-S ☐ ☐ B		
H23	2139	2140	2141	2142										RF2050R1300T-S ☐ ☐ B		
H23	2150	2151	2152	2153										RF2050R1400T-S ☐ ☐ B		
H23	2160	2161	2162	2163										RF2050R1500T-S ☐ ☐ B		
H23	2170	2171	2172	2173										RF2050R1600T-S ☐ ☐ B		
H23	2180	2181	2182	2183	2184	2185	2186							RF2060R1000T-S ☐ ☐ B		
H23	2193	2194	2195	2196	2197	2198	2199							RF2060R1100T-S ☐ ☐ B		
H23	2205	2206	2207	2208	2209	2210	2211							RF2060R1200T-S ☐ ☐ B		
H23	2216	2217	2218	2219	2220	2221	2222							RF2060R1300T-S ☐ ☐ B		
H23	2226	2227	2228	2229	2230	2231	2232							RF2060R1400T-S ☐ ☐ B		
H23	2235	2236	2237	2238	2239	2240	2241							RF2060R1500T-S ☐ ☐ B		
H23	2243	2244	2245	2246	2247	2248	2249							RF2060R1600T-S ☐ ☐ B		
H23	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259				RF2080R1000T-S ☐ ☐ B		
H23		2260	2261	2262	2263	2264	2265	2266	2267	2268				RF2080R1100T-S ☐ ☐ B		
H23				2269	2270	2271	2272	2273	2274	2275				RF2080R1200T-S ☐ ☐ B		
H23					2276	2277	2278	2279	2280	2281				RF2080R1300T-S ☐ ☐ B		
H23							2282	2283	2284	2285				RF2080R1400T-S ☐ ☐ B		
H23								2286	2287	2288				RF2080R1500T-S ☐ ☐ B		
H23								2289	2290	2291				RF2080R1600T-S ☐ ☐ B		
H23					2292	2293	2294	2295	2296	2297				RF2100R1100T-S ☐ ☐ B		

Lock S Type for Double pitch Chains



■ S-type Lock Sleeve Dimensions

Sleeve no.	DF	DC	L1	Bolt size (M×S)	Tightening torque (N·m)
S1	32.0	24.0	12.0	M4×16	4.2
S2	42.0	32.0	14.0	M5×18	8.3
S3	48.5	38.5	15.5	M5×20	8.3
S4	56.0	46.0	15.5	M5×20	8.3
S5	66.0	56.0	17.5	M5×22	8.3
S6	80.0	68.0	21.0	M6×25	16.8
S7	101.0	86.0	24.5	M8×30	40.5

● Model No.

RF2040 S 912T - S 18 A

Chain no.	Bore dia.	Mounting type A or B
Chain roller type S-roller : S R-roller : R	No. of effective teeth 912T = 9½ T (Expressed as 1000T if the number of effective teeth is 10T.)	Lock sprocket S type

● Order example

Example: RF2040S, 9.5 teeth, mounting type A, and bore dia. 15 mm

Product code	Model number
H231298	RF2040S912T-S15A

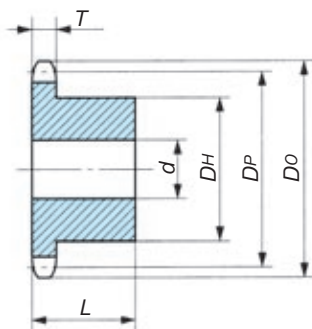
■ S-Rollers (Type A) for Double pitch Chains

	Applicable bore dia. <i>d</i>												Model number		
	15	16	17	18	19	20	22	24	25	28	30	32			
Product code (Combination of above bore dia.)															
H23	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	RF2040S912T-S □□ A		
H23	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	RF2040S1012T-S □□ A		
H23	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	RF2040S1112T-S □□ A		
H23	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	RF2040S1200T-S □□ A		
H23	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	RF2040S1212T-S □□ A		
H23			1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	RF2050S912T-S □□ A		
H23			1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	RF2050S1012T-S □□ A		
H23				1401	1402	1403	1404	1405	1406	1407	1408	1409	RF2050S1112T-S □□ A		
H23					1415	1416	1417	1418	1419	1420	1421	1422	RF2050S1200T-S □□ A		
H23							1428	1429	1430	1431	1432	1433	1434	RF2050S1212T-S □□ A	
H23								1440	1441	1442	1443	1444	RF2060S912T-S □□ A		
H23									1453	1454	1455	1456	1457	RF2060S1012T-S □□ A	
H23									1466	1467	1468	1469	1470	RF2060S1112T-S □□ A	
H23										1479	1480	1481	1482	RF2060S1200T-S □□ A	
H23													1491	1492	1493
	Applicable bore dia. <i>d</i>												Model number		
	35	38	40	42	45	48	50	55	60	65	70				
Product code (Combination of above bore dia.)															
H23	1310	1324	1325	1326	1327								RF2040S912T-S □□ A		
H23	1323												RF2040S1012T-S □□ A		
H23	1340												RF2040S1112T-S □□ A		
H23	1357												RF2040S1200T-S □□ A		
H23	1370												RF2040S1212T-S □□ A		
H23	1381	1382	1383	1384	1385								RF2050S912T-S □□ A		
H23	1396	1397	1398	1399	1400								RF2050S1012T-S □□ A		
H23	1410	1411	1412	1413	1414								RF2050S1112T-S □□ A		
H23	1423	1424	1425	1426	1427								RF2050S1200T-S □□ A		
H23	1435	1436	1437	1438	1439								RF2050S1212T-S □□ A		
H23	1445	1446	1447	1448	1449	1450	1451	1452					RF2060S912T-S □□ A		
H23	1458	1459	1460	1461	1462	1463	1464	1465					RF2060S1012T-S □□ A		
H23	1471	1472	1473	1474	1475	1476	1477	1478					RF2060S1112T-S □□ A		
H23	1483	1484	1485	1486	1487	1488	1489	1490					RF2060S1200T-S □□ A		
H23	1494	1495	1496	1497	1498	1499	1500	1501					RF2060S1212T-S □□ A		
H23		1502	1503	1504	1505	1506	1507	1508	1509	1510	1511		RF2080S912T-S □□ A		
H23					1512	1513	1514	1515	1516	1517	1518		1519	1520	RF2080S1012T-S □□ A
H23							1521	1522	1523	1524	1525		1526	1527	RF2080S1112T-S □□ A
H23							1528	1529	1530	1531	1532		1533	1534	RF2080S1200T-S □□ A
H23							1535	1536	1537	1538	1539		1540	1541	RF2080S1212T-S □□ A
H23						1542	1543	1544	1545	1546	1547		RF2100S912T-S □□ A		

<Time for delivery> All products will be produced in three days.

Flexible Coupling

Environmentally-resistant Sprockets (Stainless Steel) for Double pitch Chains RF2040 · RF2050 · RF2060 · RF2080



● Model No.

RF2040 S 912T-SS

Chain no.

Material : Stainless steel

Chain roller type

S-roller : S

R-roller : R

No. of effective teeth

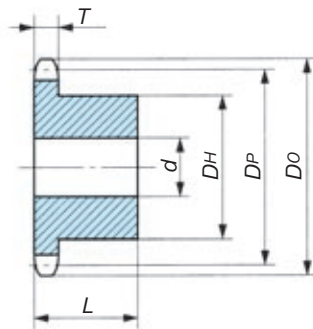
912T = 9½T

(Expressed as 1000T if the number of effective teeth is 10T.)

Product code	Model number	Roller type	No. of effective teeth	No. of indexing teeth	Pitch circle dia. D_P	Outer dia. D_o	Tooth width T	Bore dia. d		Hub		Approx. mass (kg)	Time for delivery
								Pilot bore	Max.	Dia. D_H	Length L		
H240001	RF2040S912T-SS	S-roller	9 ½	19	78.23	84	7.3	12.7	38	60	25	0.6	◎
H240002	RF2040S1012T-SS		10 ½	21	86.17	92	7.3	12.7	46	69	25	0.9	◎
H240003	RF2040S1112T-SS		11 ½	23	94.14	99	7.3	12.7	50	77	25	1.0	◎
H240004	RF2040S1200T-SS		12	24	98.14	104	7.3	12.7	42	63	25	0.8	◎
H240005	RF2040S1212T-SS		12 ½	25	102.14	108	7.3	12.7	42	63	25	0.9	◎
H240006	RF2050S912T-SS		9 ½	19	97.78	105	8.9	15.9	48	73	28	1.1	◎
H240007	RF2050S1012T-SS		10 ½	21	107.72	115	8.9	15.9	48	73	28	1.2	◎
H240008	RF2050S1112T-SS		11 ½	23	117.68	125	8.9	15.9	48	73	28	1.3	◎
H240009	RF2050S1200T-SS		12	24	122.67	130	8.9	15.9	48	73	28	1.4	◎
H240010	RF2050S1212T-SS		12 ½	25	127.67	135	8.9	15.9	48	73	28	1.5	◎
H240011	RF2060S912T-SS		9 ½	19	117.34	126	11.9	15.9	55	83	40	2.1	◎
H240012	RF2060S1012T-SS		10 ½	21	129.26	138	11.9	18	55	83	40	2.3	◎
H240013	RF2060S1112T-SS		11 ½	23	141.22	150	11.9	18	55	83	45	2.7	◎
H240014	RF2060S1200T-SS		12	24	147.21	156	11.9	18	55	83	45	2.9	◎
H240015	RF2060S1212T-SS		12 ½	25	153.20	162	11.9	18	55	83	45	3.0	◎
H240016	RF2080S912T-SS		9 ½	19	156.45	167	15	23	63	93	40	3.4	◎
H240017	RF2080S1012T-SS		10 ½	21	172.35	184	15	23	63	93	40	3.8	◎
H240018	RF2080S1112T-SS		11 ½	23	188.29	200	15	28	75	107	45	5.0	◎
H240019	RF2080S1200T-SS		12	24	196.28	208	15	28	75	107	45	5.3	◎
H240020	RF2080S1212T-SS		12 ½	25	204.27	216	15	28	75	107	45	5.6	◎
H24	RF2100S912T-SS	R-roller	9 ½	19	195.57	209	18	28	75	107	50	5.9	3W
H24	RF2120S912T-SS		9 ½	19	234.68	251	24	33	80	117	63	10.7	3W
H24	RF2160S912T-SS		9 ½	19	312.90	335	30	33	103	147	71	22.3	3W
H24	RF2040R1000T-SS		10	-	82.20	93	7.3	12.7	32	52	25	0.7	3W
H240025	RF2040R1100T-SS		11	-	90.16	102	7.3	12.7	42	63	25	0.8	◎
H240026	RF2040R1200T-SS		12	-	98.14	108	7.3	12.7	42	63	25	0.9	◎
H240027	RF2040R1300T-SS		13	-	106.14	118	7.3	12.7	42	63	25	0.9	◎
H24	RF2040R1400T-SS		14	-	114.15	127	7.3	12.7	42	63	25	1.0	2W
H24	RF2040R1500T-SS		15	-	122.17	135	7.3	15.9	45	68	28	1.2	2W
H24	RF2040R1600T-SS		16	-	130.20	143	7.3	15.9	45	68	28	1.3	2W
H24	RF2050R1000T-SS		10	-	102.75	117	8.9	15.9	48	73	28	1.1	2W
H240032	RF2050R1100T-SS		11	-	112.70	127	8.9	15.9	48	73	28	1.3	◎
H240033	RF2050R1200T-SS		12	-	122.67	138	8.9	18	48	73	28	1.3	◎
H240034	RF2050R1300T-SS		13	-	132.67	148	8.9	18	48	73	28	1.5	◎
H24	RF2050R1400T-SS		14	-	142.68	158	8.9	18	48	73	28	1.6	2W
H24	RF2050R1500T-SS		15	-	152.71	168	8.9	18	48	73	28	1.8	2W
H24	RF2050R1600T-SS		16	-	162.75	179	8.9	18	48	73	28	2.0	2W
H24	RF2060R1000T-SS		10	-	123.29	140	11.9	18	55	83	45	2.4	2W
H240039	RF2060R1100T-SS		11	-	135.23	153	11.9	18	55	83	45	2.6	◎
H240040	RF2060R1200T-SS		12	-	147.21	165	11.9	18	55	83	45	2.8	◎
H240041	RF2060R1300T-SS		13	-	159.20	177	11.9	18	55	83	45	3.1	◎
H24	RF2060R1400T-SS		14	-	171.22	190	11.9	18	55	83	45	3.4	2W
H24	RF2060R1500T-SS		15	-	183.25	202	11.9	18	55	83	45	3.7	2W
H24	RF2060R1600T-SS		16	-	195.29	214	11.9	18	55	83	45	4.0	2W
H24	RF2080R1000T-SS		10	-	164.39	187	15	28	75	107	45	4.3	2W
H24	RF2080R1100T-SS		11	-	180.31	204	15	28	75	107	45	4.8	2W
H24	RF2080R1200T-SS		12	-	196.28	220	15	28	75	107	45	5.3	2W
H24	RF2080R1300T-SS		13	-	212.27	237	15	28	75	107	45	5.9	2W
H24	RF2080R1400T-SS		14	-	228.29	253	15	28	75	107	45	6.6	2W
H24	RF2080R1500T-SS		15	-	244.33	269	15	28	75	107	45	7.3	2W
H24	RF2080R1600T-SS		16	-	260.39	286	15	28	75	107	45	8.0	2W

Material : Stainless steel

Environmentally-resistant Sprockets (Engineering Plastic) for Double pitch Chains RF2040 · RF2050 · RF2060



● Model No.

RF2040 S 912T-P

Chain no.

Material: MC901 Special

Chain roller type

S-roller : S

No. of effective teeth

912T = 9½T
(Expressed as 1000T if the number of effective teeth is 10T.)

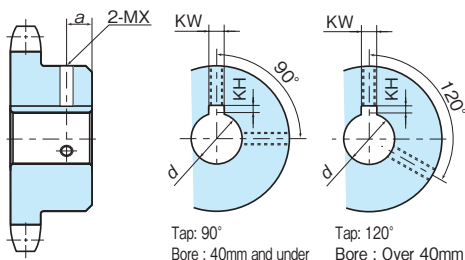
Product code	Model number	Roller type	No. of effective teeth	No. of indexing teeth	Pitch circle dia. D_P	Outer dia. D_O	Tooth width T	Bore dia. d		Hub		Approx. mass (kg)	Time for delivery
								Pilot bore	Max.	Dia. D_H	Length L		
H240052	RF2040S912T-P	S-roller	9 ½	19	78.23	84	7.3	12.7	32	60	25	0.6	◎
H240053	RF2040S1012T-P		10 ½	21	86.17	92	7.3	12.7	38	69	25	0.9	◎
H240054	RF2040S1112T-P		11 ½	23	94.14	99	7.3	12.7	45	77	25	1.0	3W
H240055	RF2040S1212T-P		12 ½	25	102.14	108	7.3	12.7	50	80	25	0.9	3W
H240056	RF2050S912T-P		9 ½	19	97.78	105	8.9	15.9	42	75	28	1.1	◎
H240057	RF2050S1012T-P		10 ½	21	107.72	115	8.9	15.9	52	85	28	1.2	◎
H240058	RF2050S1112T-P		11 ½	23	117.68	125	8.9	15.9	55	90	28	1.3	◎
H240059	RF2050S1212T-P		12 ½	25	127.67	135	8.9	15.9	60	100	28	1.5	3W
H240060	RF2060S912T-P		9 ½	19	117.34	126	11.9	15.9	52	85	40	2.1	◎
H240061	RF2060S1012T-P		10 ½	21	129.26	138	11.9	15.9	60	95	40	2.3	◎
H240062	RF2060S1112T-P		11 ½	23	141.22	150	11.9	18	60	100	45	2.7	3W
H240063	RF2060S1212T-P		12 ½	25	153.20	162	11.9	18	70	120	45	3.0	3W

Material: MC901 Special

Operating Conditions for Engineering Plastic Sprockets

- Operating temperature: — 10°C to 60°C
- Permissible speed: 70 m/min. max. (with no lubrication)
The products, however, are available to a maximum speed of 150 m/minute if lubricated in advance.
- For food and chemical resistance, refer to page 128 Corrosion Resistance of Environmentally-resistant Sprockets.

Environmentally-resistance Fit Bore Sprocket (Stainless Steel) for Double pitch Chains RF2040 · RF2050 · RF2060 · RF2080



● Model No.

RF2040 R 912T - SS - H 20 J

Chain no.	Material : Stainless steel	Bore tolerance: H7	Keyway tolerance : Js9
Chain roller type S-roller : S R-roller : R	No. of effective teeth 912T = 9½T	Bore dia.	

Applicable bore dia.	Keyway width KW	Tolerance (Js9)	Keyway depth KH	Tolerance	Setscrew MX
10 and up to 12	4		1.8		M4
More than 12 and up to 17	5	±0.0150	2.3	+0.1 0	M5
More than 17 and up to 22	6		2.8		M6
More than 22 and up to 30	8	±0.0180	3.3		
More than 30 and up to 38	10			+0.2 0	M8
More than 38 and up to 44	12		3.8		
More than 44 and up to 50	14	±0.0215	4.3		
More than 50 and up to 58	16		4.4		M10
More than 58 and up to 65	18				

For basic dimensions, refer to page 131 Standard (Steel) for Double pitch Chains.

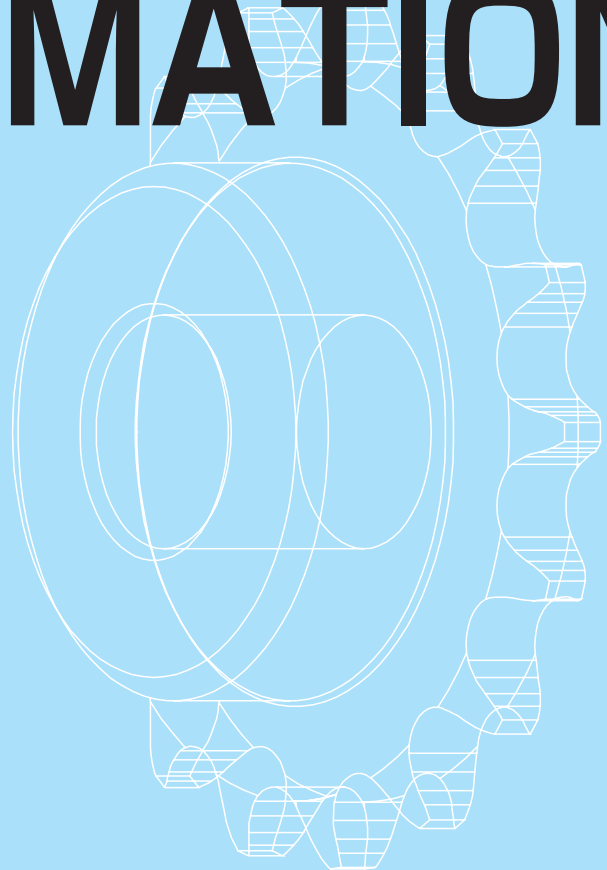
Product code	Model number	No. of effective teeth	No. of indexing teeth	Tap position a	List of finished bore diameters. <i>d</i>							
					Bore diameters left blank are not supported. The bore processing service is required.							
					Tap size							
					M 5	M 6	M 8	M 10				
H241008	RF2040S912T-SS-H □□ J	9 ½	19	7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38					
H241004	RF2040S1012T-SS-H □□ J	10 ½	21	7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42 45					
H241005	RF2040S1112T-SS-H □□ J	11 ½	23	7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48 50					
H241006	RF2040S1200T-SS-H □□ J	12	24	7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42					
H241007	RF2040S1212T-SS-H □□ J	12 ½	25	7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42					
H241016	RF2050S912T-SS-H □□ J	9 ½	19	8	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241012	RF2050S1012T-SS-H □□ J	10 ½	21	8	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241013	RF2050S1112T-SS-H □□ J	11 ½	23	8	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241014	RF2050S1200T-SS-H □□ J	12	24	8	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241015	RF2050S1212T-SS-H □□ J	12 ½	25	8	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241024	RF2060S912T-SS-H □□ J	9 ½	19	12	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241020	RF2060S1012T-SS-H □□ J	10 ½	21	12	17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241021	RF2060S1112T-SS-H □□ J	11 ½	23	15		19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241022	RF2060S1200T-SS-H □□ J	12	24	15		19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241023	RF2060S1212T-SS-H □□ J	12 ½	25	15		19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241029	RF2080S912T-SS-H □□ J	9 ½	19	12		25 28 30	32 35 38 40 42 45 48 50	55 60				
H241025	RF2080S1012T-SS-H □□ J	10 ½	21	12		25 28 30	32 35 38 40 42 45 48 50	55 60				
H241026	RF2080S1112T-SS-H □□ J	11 ½	23	15		30	32 35 38 40 42 45 48 50	55 60 65				
H241027	RF2080S1200T-SS-H □□ J	12	24	15		30	32 35 38 40 42 45 48 50	55 60 65				
H241028	RF2080S1212T-SS-H □□ J	12 ½	25	15		30	32 35 38 40 42 45 48 50	55 60 65				
H241001	RF2040R1100T-SS-H □□ J	11		7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42					
H241002	RF2040R1200T-SS-H □□ J	12		7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42					
H241003	RF2040R1300T-SS-H □□ J	13		7	14 15 16 17	18 19 20 22 24 25 28 30	32 35 38 40 42					
H241009	RF2050R1100T-SS-H □□ J	11			17	18 19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241010	RF2050R1200T-SS-H □□ J	12				19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241011	RF2050R1300T-SS-H □□ J	13				19 20 22 24 25 28 30	32 35 38 40 42 45 48					
H241017	RF2060R1100T-SS-H □□ J	11				19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241018	RF2060R1200T-SS-H □□ J	12				19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				
H241019	RF2060R1300T-SS-H □□ J	13				19 20 22 24 25 28 30	32 35 38 40 42 45 48 50	55				

<Time for delivery> All products will be produced in three days.

Material : Stainless steel

SPROCKETS FOR FREE FLOW CHAINS

PRODUCT INFORMATION

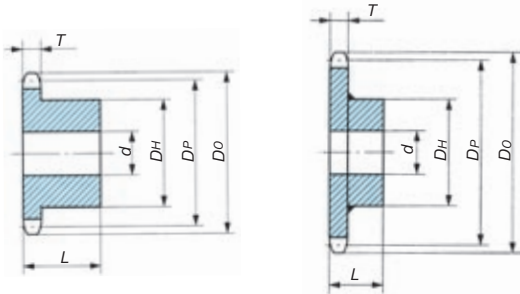


Sprockets (Steel) for Double pitch Chains with Top Rollers RF2040 · RF2050 · RF2060 · RF2080 · RF2100

- Dedicated sprockets are required for R-roller chains.
- Sprockets for double pitch chains (R-roller type) are not available due to the interference of the sprockets with chains.
- Sprockets for double pitch chains (S-roller type) can be used as they are.
- RS standard sprockets can be used if the number of effective teeth is 15 or more (with 30 or more indexing teeth).

(Solid type)

(Welding Type)



● Model No.

RF2040R 1200T-TR

Chain no. For top roller
No. of effective teeth (1200T: 12)

Product code	Model number	Roller type	No. of effective teeth	Pitch circle dia. D_P	Outer dia. D_O	Tooth width T	Bore dia. d		Hub dia. D_H	Overall length L	Approx. mass kg	Material (specifications)
							Pilot bore	Max.				
H250001	RF2040R1100T-TR	R-roller	11	90.16	97	7.3	12.7	42	63	25	0.8	Carbon steel for machine structural use (Solid type)
H250002	RF2040R1200T-TR		12	98.14	105						0.9	
H250003	RF2040R1300T-TR		13	106.14	114						0.9	
H250004	RF2050R1100T-TR		11	112.70	124	8.9	15.9	48	73	28	1.3	
H250005	RF2050R1200T-TR		12	122.67	134		18				1.3	
H250006	RF2050R1300T-TR		13	132.67	144						1.5	
H250007	RF2060R1100T-TR		11	135.24	150	11.9	18	55	83	45	2.6	
H250008	RF2060R1200T-TR		12	147.21	162						2.8	
H250009	RF2060R1300T-TR		13	159.20	175						3.1	
H250010	RF2080R1100T-TR		11	180.31	199	15	28	75	107	45	4.8	
H250011	RF2080R1200T-TR		12	196.28	216						5.3	
H250012	RF2080R1300T-TR		13	212.27	232						5.9	
H250013	RF2100R1100T-TR		11	225.39	244	18	33	80	117	56	7.9	Rolled steel for general structure (Welding type)

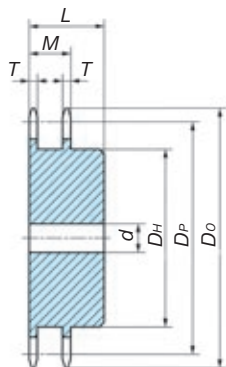
Note 1: The teeth are not hardened.

2: All models are made to order.

Sprockets (Steel) for Double-plus Chains RF2040 · RF2050 · RF2060 · RF2080

※ Dedicated sprockets are required for double-plus chains.

- The products shown below are for chains provided with snap covers.
- The products, however, are compatible with chains not provided with snap covers.
- Place orders with specifications for chains provided with snap covers.



● Model No.

RF2040VRP-10T-SC

Chain no. Chain with snap cover
No. of teeth: 10

Product code	Model number	No. of teeth	Pitch circle dia. D_P	Outer dia. D_O	Tooth width T	Total tooth width M	Bore dia. d		Hub dia. D_H	Overall length L	Approx. mass kg	Material (specifications)
							Pilot bore	Max.				
H250014	RF2030VRP-10T-SC	10	61.65	63	3	15.3	12.7	20	37	25	0.2	Carbon steel for machine structural use (Solid type)
H250015	RF2040VRP-10T-SC	10	82.20	85	4	20.4	15.9	32	52	40	0.8	
H250016	RF2050VRP-10T-SC	10	102.75	107	5	25.5	15.9	45	66	45	1.5	
H250017	RF2060VRP-10T-SC	10	123.30	128	6	30.5	19	55	81	50	2.5	
H250018	RF2080VRP-10T-SC	10	164.39	172	12	47.5	23	72	110	67	7.0	

Note 1: The teeth are not hardened.

2: Products shown in bold characters are in stock.

3: Products made with stainless steel (SUS304) will be manufactured with the same dimensions.

Sprockets for RS Chains with Side Rollers

Applicable models: RS40, RS50, RS60, RS80, and RS100 sprockets, depending on the models

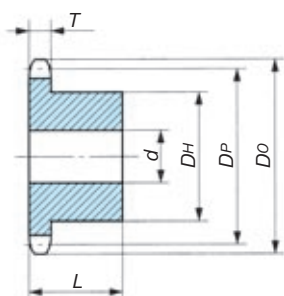
The RS standard sprockets in the shaded part of the table are not available because the hubs come in contact with side rollers.

Use dedicated sprockets for RS chains provided with side rollers instead.

〈List of Hub Interference Models〉RS standard sprockets can be used for models other than those in the shaded part.

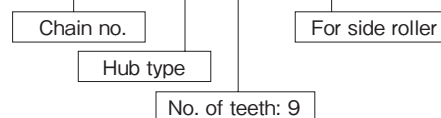
Size	No. of teeth	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RS40		20	24	28	32	36	40	44	48	52	56	60	64	68	72	76
RS50		26	31	36	41	46	51	56	61	66	71					
RS60		32	38	44	50	56										
RS80		44				76		92								
RS100			62	72	81											

※In the case of using RS standard sprockets, however, modify the hub diameters to the corresponding values shown in the shaded part.



● Model No.

RS40 - 1B 9T - SR



Product code	Model number	No. of teeth	Pitch circle dia.	Outer dia.	Tooth width	Bore dia. <i>d</i>		Hub dia. <i>D_H</i>	Overall length <i>L</i>	Approx. mass kg	Material (specifications)
			<i>D_P</i>	<i>D_O</i>	<i>T</i>	Pilot bore	Max.				
H250019	RS40-1B9T-SR	9	37.13	43	7.3	9.5	10	20	22	0.08	Carbon steel for machine structural use (Solid type)
H250020	RS40-1B10T-SR	10	41.10	47			11	24		0.10	
H250021	RS40-1B11T-SR	11	45.08	51			14	28		0.14	
H250022	RS40-1B12T-SR	12	49.07	55			16	32		0.17	
H250023	RS40-1B13T-SR	13	53.07	59			20	36		0.22	
H250024	RS40-1B14T-SR	14	57.07	63			22	40		0.27	
H250025	RS40-1B15T-SR	15	61.08	67		12.7	26	44	25	0.32	
H250026	RS40-1B16T-SR	16	65.10	71			28	48		0.38	
H250027	RS40-1B17T-SR	17	69.12	76			32	52		0.44	
H250028	RS40-1B18T-SR	18	73.14	80			35	56		0.50	
H250029	RS40-1B19T-SR	19	77.16	84			38	60		0.57	
H250030	RS40-1B20T-SR	20	81.18	88	42	64	0.72				
H250031	RS40-1B21T-SR	21	85.21	92	44	68	0.80				
H250032	RS40-1B22T-SR	22	89.24	96	46	72	0.90				
H250033	RS40-1B23T-SR	23	93.27	100	50	76	0.98				
H250034	RS50-1B9T-SR	9	46.42	53	8.9	9.5	12	26	25	0.15	
H250035	RS50-1B10T-SR	10	51.37	58		16	31	0.21			
H250036	RS50-1B11T-SR	11	56.35	63		12.7	20	36		0.25	
H250037	RS50-1B12T-SR	12	61.34	68			23	41		0.32	
H250038	RS50-1B13T-SR	13	66.34	73			27	46		0.41	
H250039	RS50-1B14T-SR	14	71.34	78			31	51		0.51	
H250040	RS50-1B15T-SR	15	76.35	83			35	56		0.61	
H250041	RS50-1B16T-SR	16	81.37	88			38	61		0.71	
H250042	RS50-1B17T-SR	17	86.39	93			43	66		0.82	
H250043	RS50-1B18T-SR	18	91.42	98			46	71		0.98	
H250044	RS60-1B9T-SR	9	55.70	63	11.9	9.5	16	32	32	0.30	
H250045	RS60-1B10T-SR	10	61.65	68		12.7	20	37		0.37	
H250046	RS60-1B11T-SR	11	67.62	76			26	44		0.52	
H250047	RS60-1B12T-SR	12	73.60	82			30	50		0.68	
H250048	RS60-1B13T-SR	13	79.60	88			15.9	35		56	
H250049	RS80-1B9T-SR	9	74.26	85	15	15.9	26	44	40	0.65	
H250050	RS80-1B13T-SR	13	106.14	118		19	50	76		1.88	
H250051	RS80-1B15T-SR	15	122.17	135			62	92		2.57	
H250052	RS100-1B10T-SR	10	102.75	117	18	18	40	62	50	1.82	
H250053	RS100-1B11T-SR	11	112.70	127		23	46	72		2.21	
H250054	RS100-1B12T-SR	12	122.67	138			52	81		2.73	

Note 1: All models are products with hardened teeth.

2: All models are made to order.

3: RS standard sprockets can be used for models other than the above.

Sprockets for Double pitch Chains with Side Rollers

Sprockets for double pitch chains (S rollers) can be used as they are for double pitch chains provided with side rollers. RS sprockets can be used as well, provided that the sprockets are of S-roller type and that the number of effective teeth is 15 or more. (with 30 or more indexing teeth).

SPROCKETS FOR TOP CHAINS

PRODUCT INFORMATION

Combinations of Sprockets and Chains

Chain type \ Sprocket		TTP	TPH	TPF	TPS	TPH	TPM	TPUM	TPUP	TPUT	TPUT	TPUT	Roller table	TPUSR	TPUN	Universal	TT	TTU	TO	TU
TTP (steel)	Page145	○	○																	
TPF (steel)	Page146			○																
TPS (steel)	Page147				○	○	○※	○※	○	○	○									
Roller table (steel)	Page148											○								
TPUSR (steel)	Page149												○							
TPUN (steel)	Page150													○	○					
TT (steel)	Page151																○			
TTU (steel)	Page152																	○		
TO/TU (steel)	Page153																		○	○

※ The above table includes sprockets that are not applicable to TPM or TPUM chains. For details, refer to the corresponding pages.

Sprockets for TTP and TPPH Chains

■ Steel Sprockets and Guide Rings (Applicable Chains: TTP and TPPH)

● Model No.

TTP 1012 T – S18

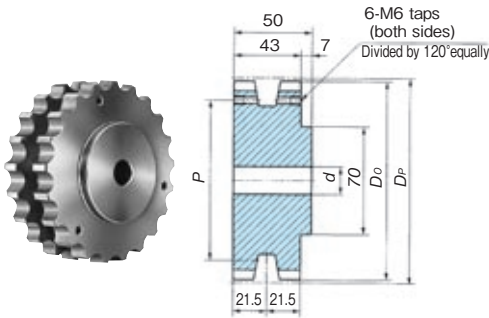
Chain type	T : Sprocket G : Guide ring	Bore dia. (Lock S type only)
TTP and TPPH (Model numbers are unified to TTP)	No. of effective teeth	

● Order example

Example: Two TTP sprockets with 10 1/2 effective teeth.

Product code	Model no.	Quantity	Unit
H410006	TTP1012T	2	K

Sprocket (with Pilot bore)



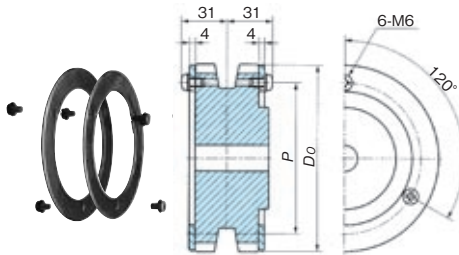
TTP Sprockets

Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	P	Bore dia. d		Approx. mass (kg)	Material
							Pilot bore	Max.		
H410005	TTP912T	19	9 1/2	117.34	117	92	18	40	2.5	Carbon steel for machine structural use (Solid type)
H410006	TTP1012T	21	10 1/2	129.26	129	104			3.2	
H410007	TTP1112T	23	11 1/2	141.22	141	116			3.7	
H410008	TTP1212T	25	12 1/2	153.20	153	128			4.4	

Note 1: Teeth are not hardened.

2: Products shown in **bold characters** are in stock. Those in normal characters are made to order.

Guide Rings



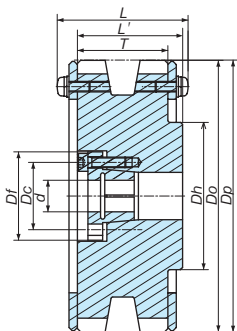
TT and TTP Guide Ring

Product code	Model no.	Applicable sprocket model no.	Outer dia. D_o	Mounting pitch dia. P	Approx. mass. (kg)
H410009	TT912G	TTP912T TT912T	116	92	0.17
H410010	TT1012G	TTP1012T TT1012T	128	104	0.19
H410011	TT1112G	TTP1112T TT1112T	140	116	0.21
H410012	TT1212G	TTP1212T TT1212T	152	128	0.23

Note 1: Each set is provided with two guide rings and six mounting bolts.

2: Products shown in **bold characters** are in stock. Those in normal characters are made to order.

Sprockets (Lock S Type)



Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×18	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3
S5	66	56	M5×22	8.3

Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L	L'
TTP912T	19	117.34	117	43.0	70	62	50
TTP1012T	21	129.26	129				
TTP1112T	23	141.22	141				
TTP1212T	25	153.20	153				

Sleeve Combinations and Transmission Torque Values

Sleeve no.	S2					S3					S4					S5				
Finished bore dia. d	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45			
Sprocket model no.	Transmission torque (N·m)																			
TTP912T	139	149	158	167	177	186	205	167	174	195	279	298	325	442	465	586	628			
TTP1212T																				

The illustration shows a product provided with guide rings. Products with no guide rings can be manufactured as well.

For TTP

Applicable bore dia. d											Model number
15	16	17	18	19	20	22	24	25	28		
Product code (Combination of above bore dia.)											
H26	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	TTP912T-S ☐
H26	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	TTP1012T-S ☐
H26	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	TTP1112T-S ☐
H26	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	TTP1212T-S ☐
Applicable bore dia. d											Model number
30	32	35	38	40	42	45					
Product code (Combination of above bore dia.)											
H26	0195	0196	0197	0198	0199	0200	0201				TTP912T-S ☐
H26	0144	0145	0146	0147	0148	0149	0150				TTP1012T-S ☐
H26	0161	0162	0163	0164	0165	0166	0167				TTP1112T-S ☐
H26	0178	0179	0180	0181	0182	0183	0184				TTP1212T-S ☐

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TPF Chains

■ Steel Sprockets (Applicable Chain: TPF)

● Model No.

TPF 1012T - S18

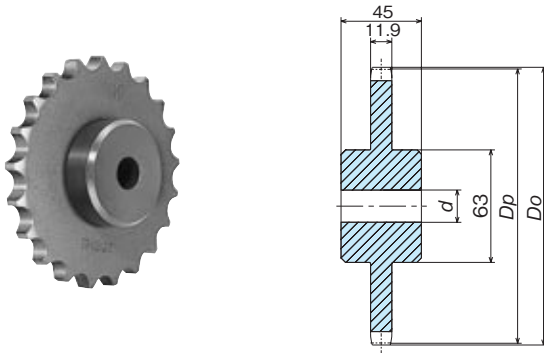
Chain type	No. of effective teeth	Bore dia.
TPF		(Lock S type only)

● Order example

Example: One TPF sprocket with 10 1/2 effective teeth.

Product code	Model no.	Quantity	Unit
H410026	TPF1012T	1	K

● Sprocket (with Pilot bore)

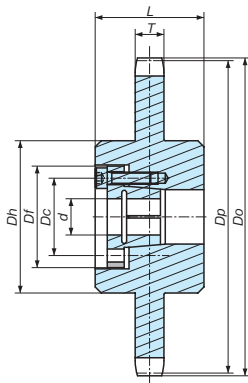


■ TPF Sprockets

Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	Bore dia. d		Approx. mass (kg)	Material
						Pilot bore	Max.		
H410025	TPF912T	19	9 1/2	117.34	120	18	42	1.7	Carbon steel for machine structural use (Solid type)
H410026	TPF1012T	21	10 1/2	129.26	131.5			1.9	
H410027	TPF1112T	23	11 1/2	141.22	143.5			2.1	
H410028	TPF1212T	25	12 1/2	153.20	155.5			2.3	

Note : Products shown in bold characters are in stock. Those in normal characters are made to order.

● Sprockets (Lock Series)



■ Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×18	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3

■ Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L
TPF912T	19	117.34	120	11.9	63	45
TPF1012T	21	129.26	131.5			
TPF1112T	23	141.22	143.5			
TPF1212T	25	153.20	155.5			

■ Sleeve Combinations and Transmission Torque Values

Sleeve no.		S2							S3			S4		
Finished bore dia. <i>d</i>		15	16	17	18	19	20	22	24	25	28	30	32	35
		Transmission torque (N · m)												
Sprocket model no.	TPF912T	105	112	119	126	133	139	153	167	174	195	279	298	325
	TPF1212T													

■ For TPF

		Applicable bore dia. <i>d</i>												Model number
		15	16	17	18	19	20	22	24	25	28	30	32	
Product code (Combination of above bore dia.)														
H42	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	TPF912T-S ☐
H42	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	TPF1012T-S ☐
H42	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	TPF1112T-S ☐
H42	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	TPF1212T-S ☐

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TPS Chains

■ Steel Sprockets (Applicable Chains: TPS, TPH, TTUP, TTUPH, TPU, MBLF879, and some TPM and TPUM chains)

● Model No.

TTUP 1012T – S18

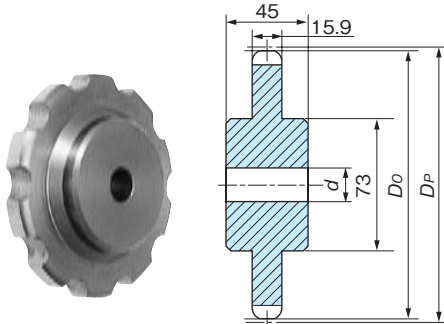
Chain type (Model numbers are unified to TTUP)	No. of effective teeth	Bore dia. (Lock S type only)
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● Order example

Example: Two TTUP sprockets with 10 1/2 effective teeth.

Product code	Model no.	Quantity	Unit
H410019	TTUP1012T	2	K

● Sprocket (with Pilot bore)



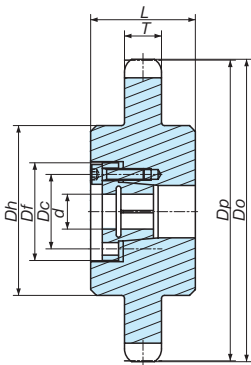
■ TTUP, TPS, and TPU Sprockets

Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	Bore dia. d Pilot bore	Max.	Approx. mass (kg)	Material
H410016	TTUP900T	–	9	111.40	111	18	47	2.0	Carbon steel for machine structural use (Solid type)
H410017	TTUP912T	19	9 1/2	117.34	117			2.1	
H410018	TTUP1000T	–	10	123.29	123			2.2	
H410019	TTUP1012T	21	10 1/2	129.26	129			2.4	
H410020	TTUP1100T	–	11	135.23	135			2.6	
H410021	TTUP1112T	23	11 1/2	141.22	141			2.8	
H410022	TTUP1200T	–	12	147.21	147			3.0	
H410023	TTUP1212T	25	12 1/2	153.20	153			3.2	
H410024	TTUP1300T	–	13	159.20	159			3.4	

Note : Products shown in **bold characters** are in stock. Those in normal characters are made to order.

Only TTUP1012T, TTUP1112T, and TTUP1212T are available to TPM and TPUM. Contact your TSUBAKI representative for models with the number of teeth other than the above or models made of engineering plastic.

● Sprockets (Lock Series)



■ Lock Sleeve Dimensions

Sleeve no.	D_F	D_C	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×16	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3
S5	66	56	M5×22	8.3

■ Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L
TTUP900T	–	111.40	111	15.9	73	45
TTUP912T	19	117.34	117			
TTUP1000T	–	123.29	123			
TTUP1012T	21	129.26	129			
TTUP1100T	–	135.23	135			
TTUP1112T	23	141.22	141			
TTUP1200T	–	147.21	147			
TTUP1212T	25	153.20	153			
TTUP1300T	–	159.20	159			

■ Sleeve Combinations and Transmission Torque Values

Sleeve no.		S2						S3			S4			S5				
Finished bore dia. <i>d</i>		15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
		Transmission torque (N · m)																
Sprocket model no.	TTUP900T	139	149	158	167	177	186	205	167	174	195	279	298	325	442	465	456	628
	TTUP1300T																	

■ For TTUP

Applicable bore dia. d											Model number
15	16	17	18	19	20	22	24	25	28		
Product code (Combination of above bore dia.)											
H42	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	TTUP900T-S ☐
H42	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	TTUP912T-S ☐
H42	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	TTUP1000T-S ☐
H42	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	TTUP1012T-S ☐
H42	0287	0288	0289	0290	0291	0292	0293	0294	0295	0296	TTUP1100T-S ☐
H42	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	TTUP1112T-S ☐
H42	0321	0322	0323	0324	0325	0326	0327	0328	0329	0330	TTUP1200T-S ☐
H42	0338	0339	0340	0341	0342	0343	0344	0345	0346	0347	TTUP1212T-S ☐
H42	0355	0356	0357	0358	0359	0360	0361	0362	0363	0364	TTUP1300T-S ☐
Applicable bore dia. d											Model number
30	32	35	38	40	42	45					
Product code (Combination of above bore dia.)											
H42	0382	0383	0384	0385	0386	0387	0388				TTUP900T-S ☐
H42	0399	0400	0401	0402	0403	0404	0405				TTUP912T-S ☐
H42	0263	0264	0265	0266	0267	0268	0269				TTUP1000T-S ☐
H42	0280	0281	0282	0283	0284	0285	0286				TTUP1012T-S ☐
H42	0297	0298	0299	0300	0301	0302	0303				TTUP1100T-S ☐
H42	0314	0315	0316	0317	0318	0319	0320				TTUP1112T-S ☐
H42	0331	0332	0333	0334	0335	0336	0337				TTUP1200T-S ☐
H42	0348	0349	0350	0351	0352	0353	0354				TTUP1212T-S ☐
H42	0365	0366	0367	0368	0369	0370	0371				TTUP1300T-S ☐

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for Roller Tables

■ Steel Sprockets for Roller Tables (Applicable Chains: ST and RT)

● Model No.

RS40 - 1B 11T - R

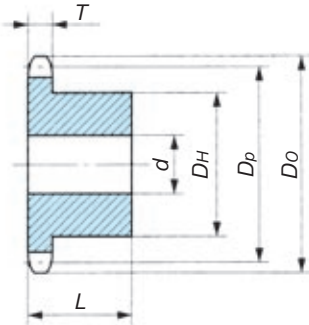
Chain type		For roller table
Hub type	No. of effective teeth	

● Order example

Example: Two sprockets with 11 effective teeth for RS40 roller tables.

Product code	Model no.	Quantity	Unit
H250065	RS40-1B11T-R	2	K

Sprocket



ST and RT Sprockets

Product code	Model no.	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Bore dia. d		Hub dia. D_H	Total width L	Approx. mass (kg)	Material
						Pilot bore	Max.				
H250055	RS35-1B13T-R	13	39.80	44	4.4	9.5	12	26	20	0.09	Carbon steel for machine structural use (Solid type)
H250056	RS35-1B14T-R	14	42.81	46			15	29		0.11	
H250057	RS35-1B15T-R	15	45.80	51			16	32		0.14	
H250058	RS35-1B16T-R	16	48.82	53		12.7	19	35		0.18	
H250059	RS35-1B17T-R	17	51.84	57			20	38		0.20	
H250060	RS35-1B18T-R	18	54.85	60			23	41		0.23	
H250061	RS35-1B19T-R	19	57.87	63	7.3	12.7	26	44	22	0.25	
H250062	RS35-1B20T-R	20	60.89	66			28	47		0.29	
H250063	RS35-1B21T-R	21	63.91	69			30	50		0.33	
H250064	RS40-1B10T-R	10	41.10	46		9.5	12	24		0.10	
H250065	RS40-1B11T-R	11	45.08	51			15	28		0.14	
H250066	RS40-1B12T-R	12	49.07	53			17	32		0.17	
H250067	RS40-1B13T-R	13	53.07	58	7.3	12.7	20	36	25	0.22	
H250068	RS40-1B14T-R	14	57.07	63			23	40		0.27	
H250069	RS40-1B15T-R	15	61.08	67			26	44		0.32	
H250070	RS40-1B16T-R	16	65.10	71			28	48		0.38	
H250071	RS40-1B17T-R	17	69.12	75			32	52		0.44	
H250072	RS40-1B18T-R	18	73.14	78			35	56		0.50	
H250073	RS40-1B19T-R	19	77.16	83	8.9	12.7	38	60	28	0.57	
H250074	RS40-1B20T-R	20	81.18	88			41	64		0.72	
H250075	RS40-1B21T-R	21	85.21	92			45	68		0.80	
H250076	RS40-1B22T-R	22	89.24	96			47	72		0.90	
H250077	RS50-1B10T-R	10	51.37	58	8.9	9.5	16	31	25	0.20	
H250078	RS50-1B11T-R	11	56.35	63		12.7	20	36		0.24	
H250079	RS50-1B12T-R	12	61.34	68			23	41		0.31	
H250080	RS50-1B13T-R	13	66.34	73			27	46		0.40	
H250081	RS50-1B14T-R	14	71.34	78			31	51		0.50	
H250082	RS50-1B15T-R	15	76.35	83			35	56		0.60	
H250083	RS50-1B16T-R	16	81.37	83	8.9	12.7	38	61	28	0.70	
H250084	RS50-1B17T-R	17	86.39	93			43	66		0.80	
H250085	RS50-1B18T-R	18	91.42	98			46	71		0.97	

Note 1: All models are products with hardened teeth.

2: Type-B RS sprockets can be used for models with the number of teeth in excess of the above.

3: The above models are common to RT models except the differences below.

Type-B RS sprockets can be used for the following models.

RS35-1B: 14T and over.

RS40-1B: 13T and over.

RS50-1B: 14T and over.

RS60-1B: 12T and over.

4: All models are made to order.

Sprockets for TPUSR Chains

■ Stainless Steel Sprockets (Applicable Chains: TPUSR826T and TPUSR550-T)

● Model No.

TPUSR 1500T – SS

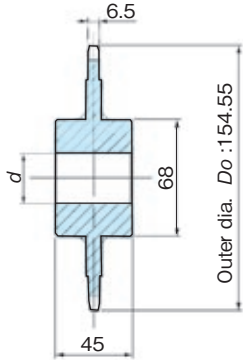
Chain type	No. of effective teeth	Materials
	1500=15T	None: Carbon steel for machine structure SS: Stainless steel

● Order example

Example: One TPUSR sprocket with stainless pilot bore and 15 effective teeth.

Product code	Model no.	Quantity	Unit
H410030	TPUSR1500T-SS	1	K

Sprocket (with Pilot bore)



TPUSR Sprockets

Product code	Model no.	Material	Structure	Pitch circle dia. D_p	Bore dia. d		Approx. mass (kg)
					Pilot bore	Max.	
H410029	TPUSR1500T	Carbon steel for machine structural use	Welding type	152.71	15.9	45	2.0
H410030	TPUSR1500T-SS	Stainless steel	Solid type				

Note 1: Only products with pilot bores are in stock.

2: Contact your TSUBAKI representative for sprockets with the number of teeth other than the above or different in material.

Sprockets (Lock Series)

● Model No.

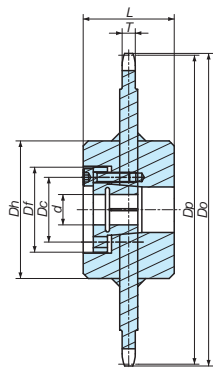
TPUSR 1500T – S18

Chain type	No. of effective teeth	Shaft hole dia.
	1500=15T	

● Order example

Example: One TPUSR sprocket made of steel with 15 effective teeth and bore dia. of 18 mm

Product code	Model no.	Quantity	Unit
H420056	TPUSR1500T-S18	1	K



Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×18	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3

Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L
TPUSR1500T	15	152.71	154.5	6.5	68	45

Note: Only steel-made products can be manufactured.

Sleeve Combinations and Transmission Torque Values

Sleeve no.		S2						S3			S4			
Finished bore dia. <i>d</i>		15	16	17	18	19	20	22	24	25	28	30	32	35
		Transmission torque (N · m)												
Sprocket model no.	TPUSR1500T	139	149	158	167	177	186	205	167	174	195	279	298	325

For TPUSR

Applicable bore dia. d														Model number
15	16	17	18	19	20	22	24	25	28	30	32	35		
Product code (Combination of above bore dia.)														
H42	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	TPUSR1500T-S ☐ ☐

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TPUN Universal Chains

■ Steel Sprockets (Applicable Chains: TPUN555 and Universal Chains 〈MB64 and MB90〉)

● Model No.

TPUN555 – 1000T – S18 A

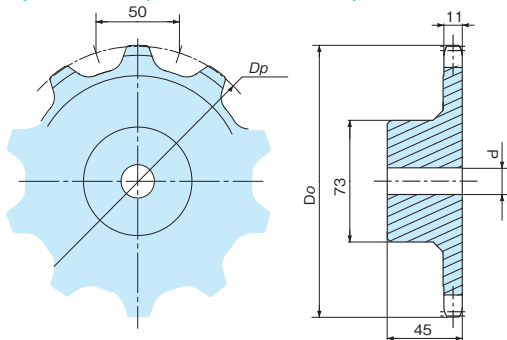
Chain type	No. of effective teeth	Bore dia.	Mounting type
		(Lock S type only)	(Lock S type only)

● Order example

Example: One TPUN sprocket with 10 effective teeth.

Product code	Model no.	Quantity	Unit
H410032	TPUN555-1000T	1	K

Sprocket (with Pilot bore)



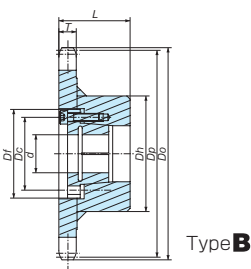
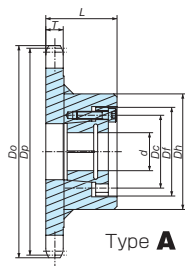
TPUN Sprockets

Product code	Model no.	Material	Structure	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	Bore dia. d		Approx. mass (kg)
H410031	TPUN555-800T	Carbon steel for machine structural use	Solid type	8	130.6	134	Pilot bore	Max.	1.9
H410032	TPUN555-1000T			10	161.8	163	16	47.5	2.7
H410033	TPUN555-1200T		Welding type	12	193.2	198	16	47.5	3.1

Note 1: Only products with pilot bores are in stock.

2: Contact your TSUBAKI representative for sprockets with the number of teeth other than the above or different in material.

Sprockets (Lock Series)



Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×18	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3
S5	66	56	M5×22	8.3

Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L
TPUN555-800T	8	130.60	134	8.8	73	45
TPUN555-1000T	10	161.80	163			
TPUN555-1200T	12	193.20	198			

Sleeve Combinations and Transmission Torque Values

Sleeve no.	S2					S3					S4					S5				
Finished bore dia. d	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45			
Sprocket model no.	Transmission torque (N·m)																			
	TPUN555-800T	139	149	158	167	177	186	205												
	TPUN555-1000T	174	186	198	209	221	232	256	167	174	195	279	298	325	442	465	586	628		

For TPUN

Applicable bore dia. d											Model number
15	16	17	18	19	20	22	24	25	28		
Product code (Combination of above bore dia.)											Model number
H42	0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	
H42	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	
H42	0423	0424	0425	0426	0427	0428	0429	0430	0431	0432	
Applicable bore dia. d											Model number
30	32	35	38	40	42	45					
Product code (Combination of above bore dia.)											Model number
H42	0450	0451	0452	0453	0454	0455	0456				
H42	0416	0417	0418	0419	0420	0421	0422				
H42	0433	0434	0435	0436	0437	0438	0439				

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TT Chains

■ Steel Sprockets and Guide Rings (Applicable Chains: TT)

● Model No.

TT 1012 T - S18

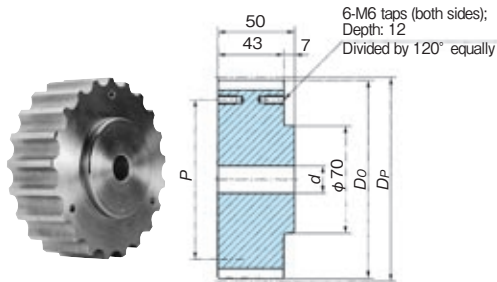
Chain type	T : Sprocket G : Guide ring	Bore dia. (Lock S type only)
No. of effective teeth		

● Order example

Example: Two TT sprockets with 10 1/2 effective teeth

Product code	Model no.	Quantity	Unit
H410002	TT1012T	2	K

Sprocket (with Pilot bore)



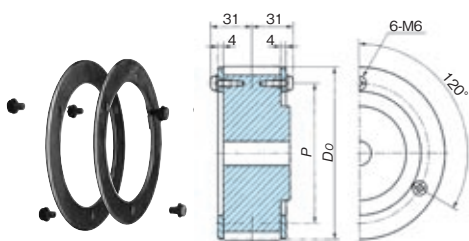
TT Sprockets

Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	P	Bore dia. d Pilot bore	Max.	Approx. mass (kg)	Material
H410001	TT912T	19	9 1/2	117.34	117	92	18	40	2.8	Carbon steel for machine structural use
H410002	TT1012T	21	10 1/2	129.26	129	104			3.7	
H410003	TT1112T	23	11 1/2	141.22	141	116			4.3	
H410004	TT1212T	25	12 1/2	153.20	153	128			5.0	

Note 1: Teeth are not hardened.

2: Products shown in **bold characters** are in stock. Those in normal characters are made to order.

Guide Rings (for TT-dedicated Sprockets)



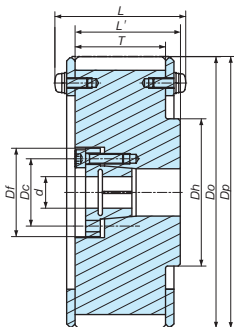
TT and TTP Guide Rings

Product code	Model no.	Applicable sprocket model no.	Outer dia. D_o	Mounting pitch dia. P	Approx. mass (kg)
H410009	TT912G	TTP912T	116	92	0.17
H410010	TT1012G	TTP1012T	128	104	0.19
H410011	TT1112G	TTP1112T	140	116	0.21
H410012	TT1212G	TTP1212T	152	128	0.23

Note 1: Each set is provided with two guide rings and six mounting bolts.

2: Products shown in **bold characters** are in stock. Those in normal characters are made to order.

Sprockets (Lock Series)



The illustration shows a product provided with guide rings. Products with no guide rings can be manufactured as well.

Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×16	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3
S5	66	56	M5×22	8.3

Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L	L'
TT912T	19	117.34	117	43.0	70	62	50
TT1012T	21	129.26	129				
TT1112T	23	141.22	141				
TT1212T	25	153.20	153				

Sleeve Combinations and Transmission Torque Values

Sleeve no.	S2					S3					S4					S5				
Finished bore dia. d	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45			
Sprocket model no.	Transmission torque (N·m)																			
	TT912T	139	149	158	167	177	186	205	167	174	195	279	298	325	442	465	586	628		
	TT1012T																			
	TT1112T	174	186	198	209	221	232	256												

■ For TT

Applicable bore dia. d											Model number
15	16	17	18	19	20	22	24	25	28		
Product code (Combination of above bore dia.)											
H42	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	TT912T-S □□
H42	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	TT1012T-S □□
H42	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	TT1112T-S □□
H42	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	TT1212T-S □□
Applicable bore dia. d											Model number
30	32	35	38	40	42	45					
Product code (Combination of above bore dia.)											
H42	0127	0128	0129	0130	0131	0132	0133				TT912T-S □□
H42	0076	0077	0078	0079	0080	0081	0082				TT1012T-S □□
H42	0093	0094	0095	0096	0097	0098	0099				TT1112T-S □□
H42	0110	0111	0112	0113	0114	0115	0116				TT1212T-S □□

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TTU Chains

■ Steel Sprockets (Applicable Chain: TTU)

● Model No.

TTU 1012 T – S18

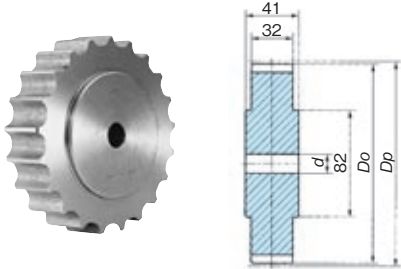
Chain type	No. of effective teeth	Bore dia.
		(Lock S type only)

● Order example

Example: Two TTU sprockets with 10 1/2 effective teeth

Product code	Model no.	Quantity	Unit
H410013	TTP1012T	2	K

Sprocket (with Pilot bore)

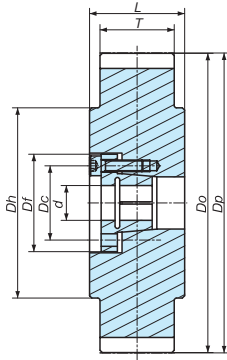


TTU Sprockets

Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. D_p	Outer dia. D_o	Bore dia. d		Approx. mass (kg)	Material
						Pilot bore	Max.		
H410013	TTU1012T	21	10 1/2	129.26	129	16	55	3.3	Carbon steel for machine structural use
H410014	TTU1112T	23	11 1/2	141.22	141			3.9	
H410015	TTU1212T	25	12 1/2	153.20	153			4.6	

Note: Products are in stock.

Sprockets (Lock S Type)



Lock Sleeve Dimensions

Sleeve no.	D_f	D_c	Bolt size (M×L)	Tightening torque (N·m)
S2	42	32	M5×18	8.3
S3	48.5	38.5	M5×20	8.3
S4	56	46	M5×20	8.3
S5	66	56	M5×22	8.3

Sprocket Basic Dimensions

Sprocket model no.	No. of indexing teeth	Pitch circle dia. D_p	Outer dia. D_o	Tooth width T	Hub dia. D_h	L
TTU1012T	21	129.26	129	32.0	82	41
TTU1112T	23	141.22	141			
TTU1212T	25	153.20	153			

Sleeve Combinations and Transmission Torque Values

Sleeve no.	S2						S3				S4			S5			
Finished bore dia. d	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
	Transmission torque (N·m)																
Sprocket model no.	TTU1012T	139	149	158	167	177	186	205	167	174	195	279	298	325	442	465	586
	TTU1112T	174	186	198	209	221	232	256									
	TTU1212T																

■ For TTU

Applicable bore dia. d											Model number
15	16	17	18	19	20	22	24	25	28		
Product code (Combination of above bore dia.)											
H42	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	TTU1012T-S ☐
H42	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	TTU1112T-S ☐
H42	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	TTU1212T-S ☐
Applicable bore dia. d											Model number
30	32	35	38	40	42	45					
Product code (Combination of above bore dia.)											
H42	0212	0213	0214	0215	0216	0217	0218				TTU1012T-S ☐
H42	0229	0230	0231	0232	0233	0234	0235				TTU1112T-S ☐
H42	0246	0247	0248	0249	0250	0251	0252				TTU1212T-S ☐

<Time for delivery> Stock items will be produced in three days. Non-stock items are made to order.

Sprockets for TO and TU Chains

■ Cast Iron Sprockets (Applicable Chains: TO and TU)

● Model No.

TOS 1013 T

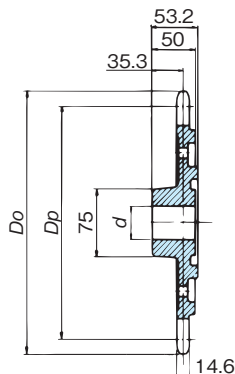
Chain type	No. of effective teeth
------------	------------------------

● Order example

Example: One TOS sprockets with 10 1/3 effective teeth.

Product code	Model no.	Quantity	Unit
H410034	TOS1013T	1	K

Sprockets (Dedicated to TO)

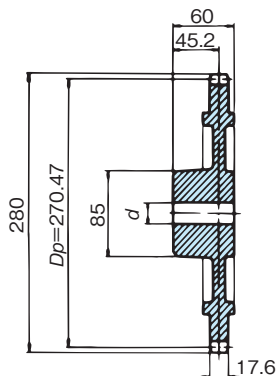


TO Sprockets

Applicable chain	Product code	Model no.	No. of indexing teeth	No. of effective teeth	Pitch circle dia. Dp	Outer dia. Do	Bore dia. d		Approx. mass (kg)	Material
							Pilot bore	Max.		
TOS	H410034	TOS1013T	31	10 1/3	254.59	269	23	45	7.2	FC250
TOR	H410035	TOR1100T	11	11	270.47	305			7.6	

Note: Products are in stock.

Sprockets (Dedicated to TU)



TU Sprockets

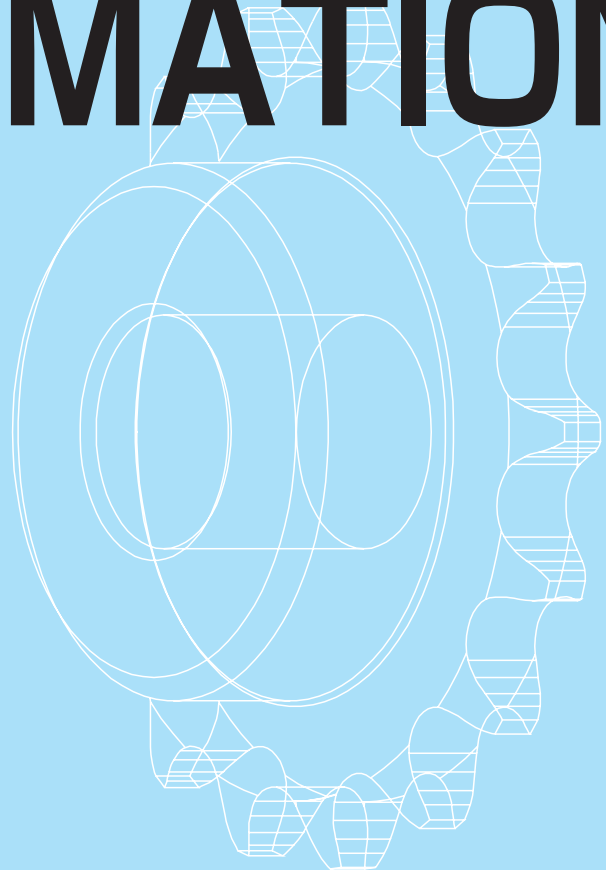
Product code	Model no.	No. of indexing teeth	No. of effective teeth	Bore dia. d		Approx. mass (kg)	Material
				Pilot bore	Max.		
H410036	TU1100T	11	11	23	50	7.4	FC250

Note: Products are in stock.

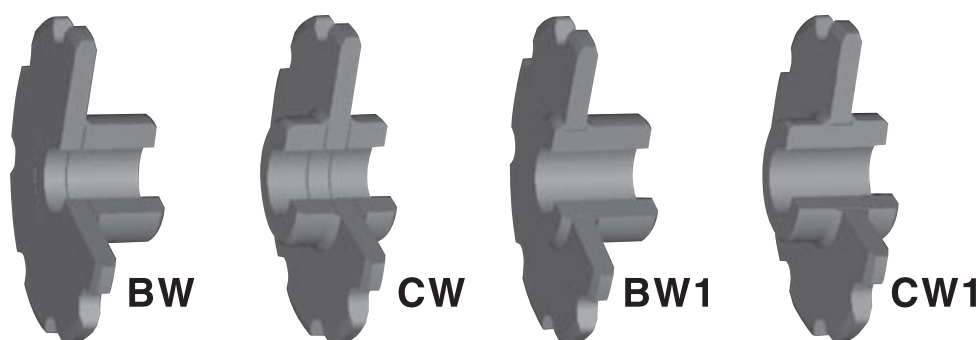
RF

SPROCKETS FOR LARGE-SIZED CONVEYOR CHAINS

PRODUCT INFORMATION



Sprockets for RF Conveyor Chains



Features of Sprockets for RF Conveyor Chains

■ Quick Delivery of Products with Hardened Teeth (Strong)

Product with hardened teeth	
Product with pilot bore	Product with additional bore processing
Produced in 1 week	Produced in 2 weeks

Optimum high-frequency hardening is provided to the teeth of sprockets with materials developed by TSUBAKI. These teeth ensures improvements in the wear resistance of the sprockets and transmission performance with a cost reduction.

■ Large expansion and low pricing of standard products

Offers more than 500 types of standard products at affordable prices.

● Well-balanced strength designing of sprockets based on chain conditions

The well-balanced bore diameters and hub lengths of sprockets are carefully designed according to the capabilities and operating conditions of applicable chains.

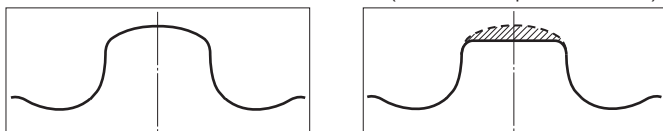
● A wide selection of sprockets in combination with selectable hubs

Offers a wide selection of sprockets in nonstandard sizes in combination with teeth and selectable hubs.

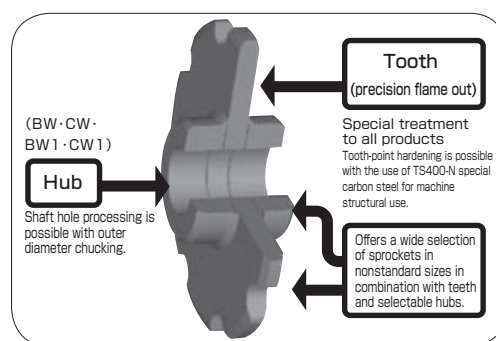
The standard dimensions of the bore are described on each hub, which ensures ease of bore selection.

Tooth Shapes

S1: Arc-shaped tooth profile S2: Flat tooth profile
(The shaded part is cut off.)



Sprockets are provided with S2 tooth profile if chains provided with K attachments are used and they may come in contact with outer dia. of the sprockets.



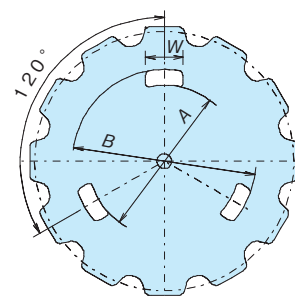
List of Hanging Hole Sizes

Note) No hanging holes are provided to any sprocket the applicable chain number or the number of teeth of which is not listed in the table.

Chain no.	No. of teeth	Hanging hole position and size		
		A	B	W
RF03100	12	230	280	70
RF05100	12	230	280	70
RF05125	10	230	280	70
	12	270	340	85
RF05150	8	230	280	70
	10	270	340	85
RF08125	12	340	410	85
	10	230	280	70
RF08150	12	270	340	85
	8	230	280	70
RF10100	10	270	340	85
	12	340	410	85
RF10125	10	230	280	70
	12	270	340	85
RF10150	8	230	280	70
	10	270	340	85
RF12200	12	340	410	85
	8	270	340	85
RF12250	10	340	410	85
	12	430	500	90
RF12250	6	270	340	85
	8	340	410	85
RF12250	10	430	500	90
	12	550	630	90

Chain no.	No. of teeth	Hanging hole position and size		
		A	B	W
RF17200	8	270	340	85
	10	340	410	85
RF17250	12	430	500	90
	6	270	340	85
RF17250	8	340	410	85
	10	430	500	90
RF17300	12	550	630	90
	6	340	410	85
RF17300	8	430	500	90
	10	550	630	90
RF26200	12	750	850	100
	8	270	340	85
RF26200	10	340	410	85
	12	430	500	90
RF26250	8	340	410	85
	10	430	500	90
RF26250	12	550	630	90
RF26300	6	340	410	85
	8	430	500	90
RF26300	10	550	630	90
	12	750	850	100
RF36250	8	340	410	85
	10	430	500	90
RF36250	12	550	630	90
	8	430	500	90
RF36300	10	550	630	90
	12	750	850	100

Chain no.	No. of teeth	Hanging hole position and size		
		A	B	W
RF430	12	230	280	70
RF450	12	230	280	70
RF650	8	230	280	70
	10	270	340	85
RF214	12	340	410	85
	10	270	340	85
RF6205	12	340	410	85
	10	270	340	85
RF212	12	340	410	85
	10	270	340	85



List of Sprocket Models for RF Conveyor Chains and Required Periods of Time for Delivery

Chain no.	Roller type	No. of teeth	Standard hub				Combination with selectable hub			
			Non-hardened		Hardened teeth		Non-hardened		Hardened teeth	
			Pilot Bore	Finished bore	Pilot Bore	Finished bore	Pilot Bore	Finished bore	Pilot Bore	Finished bore
RF03075	R	6								
	F	8								
	S	10								
	S	12								
RF03100	R	6								
	F	8								
	S	10								
	S	12	3D	1W	1W	2W	1W	10D	10D	3W
RF05075	S	8								
		10								
		12								
RF05100	R	6								
	F	8								
	S	10								
	S	12								
RF05125	R	6								
	F	8								
	S	10	2W	3W	3W	3W	2W	3W	3W	3W
	S	12								
RF05150	R	6								
	F	8								
	S	10	3D	1W	1W	2W	1W	10D	10D	3W
	S	12								
RF08125	R	6								
	F	8								
	S	10	2W	3W	3W	3W	2W	3W	3W	3W
	S	12								
RF08150	R	6								
	F	8								
	S	10	3D	1W	1W	2W	1W	10D	10D	3W
	S	12	2W	3W	3W	3W	2W	3W	3W	3W
RF10100	R	6								
	S	8	3D	1W	1W	2W	1W	10D	10D	3W
	S	10								
	S	12								
RF10125	R	6								
	F	8								
	S	10	2W	3W	3W	3W	2W	3W	3W	3W
	S	12								
RF10150	R	6								
	F	8	3D	1W	1W	2W	1W	10D	10D	3W
	S	10								
	S	12	2W	3W	3W	3W	2W	3W	3W	3W

Time for delivery

3D: Produced in three days

1W: Produced in 1 week

10D: Produced in 10 days

2W: Produced in 2 weeks

3W: Produced in 3 weeks

※ Produced in three days means that products are completed three days reckoned from the next day after orders are received.

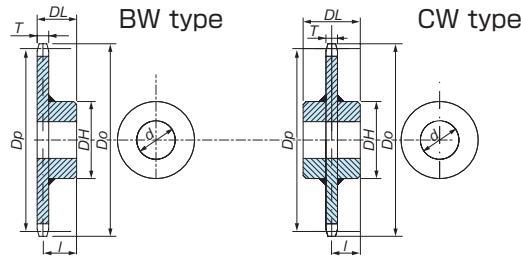
Chain no.	Roller type	No. of teeth	Standard hub				Combination with selectable hub			
			Non-hardened		Hardened teeth		Non-hardened		Hardened teeth	
			Pilot Bore	Finished bore	Pilot Bore	Finished bore	Pilot Bore	Finished bore	Pilot Bore	Finished bore
RF12200	R	6								
	F	8	1W	10D	10D	2W	10D	2W	2W	3W
	S	10								
	S	12	2W	3W	3W	3W	2W	3W	3W	3W
RF12250	R	6								
	F	8	1W	10D	10D	2W	10D	2W	2W	3W
	S	10								
	S	12								
RF17200	R	6								
	F	8								
	S	10								
	S	12								
RF17250	R	6								
	F	8								
	S	10								
	S	12								
RF17300	R	6								
	F	8								
	S	10								
	S	12								
RF26200	S	6								
		8								
		10	2W	3W	3W	3W	2W	3W	3W	3W
		12								
RF26250	R	6								
	F	8								
	S	10								
	S	12								
RF26300	R	6								
	F	8								
	S	10								
	S	12								
RF36250	R	6								
	F	8								
	S	10								
	S	12								
RF36300	R	6								
	F	8								
	S	10								
	S	12								

RF430	R	6								
	S	8								
		10								
	S	12	2W	3W	3W	3W	2W	3W	3W	3W
RF204	S	8								
		10								
		12								
RF450	R	6	3D	1W	1W	2W	1W	10D	10D	3W
	F	8								
	S	10								
	S	12								
RF650	R	6								
	F	8								
	S	10								
	S	12								
RF214	R	6								
	S	8								
		10								
		12								
RF205	S	8	2W	3W	3W	3W	2W	3W	3W	3W
		10								
		12								
RF6205	R	6								
	F	8								
	S	10								
	S	12								
RF212	R	6								
	S	8								
		10								
	S	12								

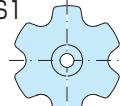
BW and CW type R-roller Sprockets

RF03075 R 6T – BW N

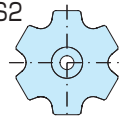
Chain no.	No. of teeth	Hub type
Roller type		BW·CW
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped tooth teeth)



Tooth profile: S2
(Flat teeth)

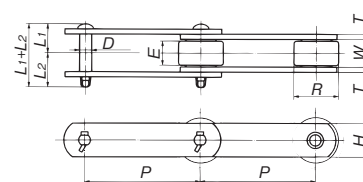


Measurement system	Chain no. (Chain pitch)	No. of teeth N	Basic sprocket size and shape				Common basic specification					BW type		CW type		Time for delivery	
			Pitch circle dia. Dp	Outer dia. Do	Tooth width T	Tooth shape	Bore dia. d		Hub dia.	Overall length	Approx. mass	Hub NO.	Center distance	Hub NO.	Center distance	Common to BW and CW	
							Pilot bore	Max.	DH	DL	kg		I		I	N (Non-hardened)	Q (Hardened teeth)
Metric pitch	RF03075R (75)	6	150.0	158	11.9 $^{0}_{-0.8}$	S1	18	50	73	57	3.0	SB1	51	SC1	28.5	3D	1W
		8	196.0	209		S1	18	55	83	62	4.8	SB2	56	SC2	31.0		
		10	242.7	259		S1	18	60	93	67	7.1	SB3	61	SC3	33.5		
		12	289.8	308		S1	18	60	93	67	9.0	SB3	61	SC3	33.5		
	RF03100R (100)	6	200.0	206	11.9 $^{0}_{-0.8}$	S2	18	55	83	62	4.9	SB2	56	SC2	31.0	3D	1W
		8	261.3	272		S2	18	60	93	67	7.8	SB3	61	SC3	33.5		
		10	323.6	336		S1	18	65	98	72	11.1	SB4	66	SC4	36.0		
		12	386.4	401		S1	18	65	98	72	14.4	SB4	66	SC4	36.0		
	RF05100R (100)	6	200.0	205	18 $^{0}_{-0.8}$	S1	28	75	107	86	8.8	SB5	77	SC5	43.0	3D	1W
		8	261.3	273		S1	28	75	107	86	12.0	SB5	77	SC5	43.0		
		10	323.6	340		S1	33	80	117	94	17.4	SB6	85	SC6	47.0		
		12	386.4	405		S1	33	85	127	104	24.4	SB7	95	SC7	52.0		
	RF05125R (125)	6	250.0	256	18 $^{0}_{-0.8}$	S2	28	75	107	86	11.3	SB5	77	SC5	43.0	2W	3W
		8	326.6	338		S2	33	80	117	94	17.6	SB6	85	SC6	47.0		
		10	404.5	420		S2	33	85	127	104	26.0	SB7	95	SC7	52.0		
		12	483.0	499		S1	33	95	137	116	36.4	SB8	107	SC8	58.0		
	RF05150R (150)	6	300.0	304	18 $^{0}_{-0.8}$	S2	33	80	117	94	15.8	SB6	85	SC6	47.0	3D	1W
		8	392.0	402		S2	33	85	127	104	24.9	SB7	95	SC7	52.0		
		10	485.4	500		S2	33	95	137	116	36.7	SB8	107	SC8	58.0		
		12	579.6	596		S2	33	95	137	116	47.8	SB8	107	SC8	58.0		
	RF08125R (125)	6	250.0	263	22 $^{0}_{-1.0}$	S2	28	75	107	90	12.8	SB5	79	SC5	45.0	2W	3W
		8	326.6	346		S2	33	80	117	98	20.2	SB6	87	SC6	49.0		
		10	404.5	426		S1	33	85	127	108	30.0	SB7	97	SC7	54.0		
		12	483.0	508		S1	33	95	137	120	42.2	SB8	109	SC8	60.0		
	RF08150R (150)	6	300.0	311	22 $^{0}_{-1.0}$	S2	33	80	117	98	18.0	SB6	87	SC6	49.0	3D	1W
		8	392.0	410		S2	33	85	127	108	28.7	SB7	97	SC7	54.0		
		10	485.4	507		S2	33	95	137	120	42.5	SB8	109	SC8	60.0		
		12	579.6	604		S2	33	95	137	120	56.1	SB8	109	SC8	60.0	2W	3W
	RF10100R (100)	6	200.0	214	22 $^{0}_{-1.0}$	S1	28	75	107	90	9.8	SB5	79	SC5	45.0	3D	1W
		8	261.3	282		S1	33	85	127	108	17.1	SB7	97	SC7	54.0		
		10	323.6	349		S1	33	95	137	120	24.7	SB8	109	SC8	60.0		
		12	386.4	414		S1	38	100	147	123	32.6	SB9	112	SC9	61.5	2W	3W
	RF10125R (125)	6	250.0	262	22 $^{0}_{-1.0}$	S2	33	85	127	108	16.3	SB7	97	SC7	54.0	2W	3W
		8	326.6	343		S1	33	95	137	120	25.0	SB8	109	SC8	60.0		
		10	404.5	426		S1	38	100	147	123	34.5	SB9	112	SC9	61.5		
		12	483.0	508		S1	38	110	157	133	47.3	SB10	122	SC10	66.5		
	RF10150R (150)	6	300.0	309	22 $^{0}_{-1.0}$	S2	33	95	137	120	22.7	SB8	109	SC8	60.0	3D	1W
		8	392.0	408		S2	38	100	147	123	33.2	SB9	112	SC9	61.5		
		10	485.4	506		S2	38	110	157	133	47.6	SB10	122	SC10	66.5		
		12	579.6	601		S1	38	115	167	144	65.2	SB11	133	SC11	72.0	2W	3W
Inch pitch	RF430R (101.6)	6	203.2	211	18 $^{0}_{-0.8}$	S1	18	60	93	73	7.4	SB3	64	SC3	36.5	2W	3W
		8	265.5	277		S1	18	65	98	78	11.2	SB4	69	SC4	39.0		
		10	328.8	345		S1	28	75	107	86	16.4	SB5	77	SC5	43.0		
		12	392.6	411		S1	28	75	107	86	21.5	SB5	77	SC5	43.0		
	RF450R (101.6)	6	203.2	217	22 $^{0}_{-1.0}$	S1	28	75	107	90	10.0	SB5	79	SC5	45.0	3D	1W
		8	265.5	286		S1	28	75	107	90	13.9	SB5	79	SC5	45.0		
		10	328.8	354		S1	33	80	117	98	20.4	SB6	87	SC6	49.0		
		12	392.6	419		S1	33	85	127	108	28.7	SB7	97	SC7	54.0	2W	3W
	RF650R (152.4)	6	304.8	321	22 $^{0}_{-1.0}$	S1	33	80	117	98	18.3	SB6	87	SC6	49.0	2W	3W
		8	398.2	422		S1	33	85	127	108	29.3	SB7	97	SC7	54.0		
		10	493.2	521		S1	33	95	137	120	43.5	SB8	109	SC8	60.0		
		12	588.8	618		S1	33	95	137	120	57.5	SB8	109	SC8	60.0		
	RF214R (101.6)	6	203.2	230	24 $^{0}_{-1.0}$	S1	28	75	107	92	10.5	SB5	80	SC5	46.0	2W	3W
		8	265.5	292		S1	33	95	137	122	20.9	SB8	110	SC8	61.0		
		10	328.8	356		S1	33	95	137	122	26.5	SB8	110	SC8	61.0		
		12	392.6	419		S1	38	100	147	125	35.1	SB9	113	SC9	62.5		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller		Inner link	Plate		Pin			
		Roller dia. <i>R</i>	Contact track width <i>E</i>	Inner width <i>W</i>	Width <i>H</i>	Thickness <i>T</i>	Dia. <i>D</i>	<i>L</i> ₁ + <i>L</i> ₂	<i>L</i> ₁	<i>L</i> ₂
Metric	RF03075R	31.8	15.5	16.1	22	3.2	8	38	18	20
	RF03100R									
	RF05100R	40	19	22	32	4.5	11.3	53.5	25	28.5
	RF05125R									
	RF05150R	44.5	23	27	28.6	6.3	11.3	65.5	31	34.5
	RF08125R									
	RF08150R	44.5	23	27	28.6	6.3	11.3	65.5	31	34.5
	RF10100R									
Inch	RF10125R	50.8	27	30	38.1	6.3	14.5	69	33	36
	RF10150R									
	RF430R	38.1	19	22.6	25.4	4.8	9.7	55	25.5	29.5
	RF450R	44.5	23	27	28.6	6.3	11.3	65.5	31	34.5
	RF650R	50.8	26	30.2	38.1	6.3	11.3	69	32.5	36.5
	RF214R	44.5	27	31.6	38.1	7.9	15.9	77.5	37.5	40



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF03075R

Product code	Model no.
H310001	RF03075R6T-BWN
H310061	RF03075R6T-BWQ
H310121	RF03075R6T-CWN
H310181	RF03075R6T-CWQ
H310002	RF03075R8T-BWN
H310062	RF03075R8T-BWQ
H310122	RF03075R8T-CWN
H310182	RF03075R8T-CWQ
H310003	RF03075R10T-BWN
H310063	RF03075R10T-BWQ
H310123	RF03075R10T-CWN
H310183	RF03075R10T-CWQ
H310004	RF03075R12T-BWN
H310064	RF03075R12T-BWQ
H310124	RF03075R12T-CWN
H310184	RF03075R12T-CWQ

◆ RF03100R

Product code	Model no.
H310005	RF03100R6T-BWN
H310065	RF03100R6T-BWQ
H310125	RF03100R6T-CWN
H310185	RF03100R6T-CWQ
H310006	RF03100R8T-BWN
H310066	RF03100R8T-BWQ
H310126	RF03100R8T-CWN
H310186	RF03100R8T-CWQ
H310007	RF03100R10T-BWN
H310067	RF03100R10T-BWQ
H310127	RF03100R10T-CWN
H310187	RF03100R10T-CWQ
H310008	RF03100R12T-BWN
H310068	RF03100R12T-BWQ
H310128	RF03100R12T-CWN
H310188	RF03100R12T-CWQ

◆ RF05100R

Product code	Model no.
H310009	RF05100R6T-BWN
H310069	RF05100R6T-BWQ
H310129	RF05100R6T-CWN
H310189	RF05100R6T-CWQ
H310010	RF05100R8T-BWN
H310070	RF05100R8T-BWQ
H310130	RF05100R8T-CWN
H310190	RF05100R8T-CWQ
H310011	RF05100R10T-BWN
H310071	RF05100R10T-BWQ
H310131	RF05100R10T-CWN
H310191	RF05100R10T-CWQ
H310012	RF05100R12T-BWN
H310072	RF05100R12T-BWQ
H310132	RF05100R12T-CWN
H310192	RF05100R12T-CWQ

◆ RF05125R

Product code	Model no.
H310013	RF05125R6T-BWN
H310073	RF05125R6T-BWQ
H310133	RF05125R6T-CWN
H310193	RF05125R6T-CWQ
H310014	RF05125R8T-BWN
H310074	RF05125R8T-BWQ
H310134	RF05125R8T-CWN
H310194	RF05125R8T-CWQ
H310015	RF05125R10T-BWN
H310075	RF05125R10T-BWQ
H310135	RF05125R10T-CWN
H310195	RF05125R10T-CWQ
H310016	RF05125R12T-BWN
H310076	RF05125R12T-BWQ
H310136	RF05125R12T-CWN
H310196	RF05125R12T-CWQ

◆ RF05150R

Product code	Model no.
H310017	RF05150R6T-BWN
H310077	RF05150R6T-BWQ
H310137	RF05150R6T-CWN
H310197	RF05150R6T-CWQ
H310018	RF05150R8T-BWN
H310078	RF05150R8T-BWQ
H310138	RF05150R8T-CWN
H310198	RF05150R8T-CWQ
H310019	RF05150R10T-BWN
H310079	RF05150R10T-BWQ
H310139	RF05150R10T-CWN
H310199	RF05150R10T-CWQ
H310020	RF05150R12T-BWN
H310080	RF05150R12T-BWQ
H310140	RF05150R12T-CWN
H310200	RF05150R12T-CWQ

◆ RF08125R

Product code	Model no.
H310021	RF08125R6T-BWN
H310081	RF08125R6T-BWQ
H310141	RF08125R6T-CWN
H310201	RF08125R6T-CWQ
H310022	RF08125R8T-BWN
H310082	RF08125R8T-BWQ
H310142	RF08125R8T-CWN
H310202	RF08125R8T-CWQ
H310023	RF08125R10T-BWN
H310083	RF08125R10T-BWQ
H310143	RF08125R10T-CWN
H310203	RF08125R10T-CWQ
H310024	RF08125R12T-BWN
H310084	RF08125R12T-BWQ
H310144	RF08125R12T-CWN
H310204	RF08125R12T-CWQ

◆ RF08150R

Product code	Model no.
H310025	RF08150R6T-BWN
H310085	RF08150R6T-BWQ
H310145	RF08150R6T-CWN
H310205	RF08150R6T-CWQ
H310026	RF08150R8T-BWN
H310086	RF08150R8T-BWQ
H310146	RF08150R8T-CWN
H310206	RF08150R8T-CWQ
H310027	RF08150R10T-BWN
H310087	RF08150R10T-BWQ
H310147	RF08150R10T-CWN
H310207	RF08150R10T-CWQ
H310028	RF08150R12T-BWN
H310088	RF08150R12T-BWQ
H310148	RF08150R12T-CWN
H310208	RF08150R12T-CWQ

◆ RF10100R

Product code	Model no.
H310029	RF10100R6T-BWN
H310089	RF10100R6T-BWQ
H310149	RF10100R6T-CWN
H310209	RF10100R6T-CWQ
H310030	RF10100R8T-BWN
H310090	RF10100R8T-BWQ
H310150	RF10100R8T-CWN
H310210	RF10100R8T-CWQ
H310031	RF10100R10T-BWN
H310091	RF10100R10T-BWQ
H310151	RF10100R10T-CWN
H310211	RF10100R10T-CWQ
H310032	RF10100R12T-BWN
H310092	RF10100R12T-BWQ
H310152	RF10100R12T-CWN
H310212	RF10100R12T-CWQ

◆ RF10125R

Product code	Model no.
H310033	RF10125R6T-BWN
H310093	RF10125R6T-BWQ
H310153	RF10125R6T-CWN
H310213	RF10125R6T-CWQ
H310034	RF10125R8T-BWN
H310094	RF10125R8T-BWQ
H310154	RF10125R8T-CWN
H310214	RF10125R8T-CWQ
H310035	RF10125R10T-BWN
H310095	RF10125R10T-BWQ
H310155	RF10125R10T-CWN
H310215	RF10125R10T-CWQ
H310036	RF10125R12T-BWN
H310096	RF10125R12T-BWQ
H310156	RF10125R12T-CWN
H310216	RF10125R12T-CWQ

◆ RF10150R

Product code	Model no.
H310037	RF10150R6T-BWN
H310097	RF10150R6T-BWQ
H310157	RF10150R6T-CWN
H310217	RF10150R6T-CWQ
H310038	RF10150R8T-BWN
H310098	RF10150R8T-BWQ
H310158	RF10150R8T-CWN
H310218	RF10150R8T-CWQ
H310039	RF10150R10T-BWN
H310099	RF10150R10T-BWQ
H310159	RF10150R10T-CWN
H310219	RF10150R10T-CWQ
H310040	RF10150R12T-BWN
H310100	RF10150R12T-BWQ
H310160	RF10150R12T-CWN
H310220	RF10150R12T-CWQ

◆ RF430R (Inch)

Product code	Model no.
H310717	RF430R6T-BWN
H310741	RF430R6T-BWQ
H310765	RF430R6T-CWN
H310789	RF430R6T-CWQ
H310718	RF430R8T-BWN
H310742	RF430R8T-BWQ
H310766	RF430R8T-CWN
H310790	RF430R8T-CWQ
H310719	RF430R10T-BWN
H310743	RF430R10T-BWQ
H310767	RF430R10T-CWN
H310791	RF430R10T-CWQ
H310720	RF430R12T-BWN
H310744	RF430R12T-BWQ
H310768	RF430R12T-CWN
H310792	RF430R12T-CWQ

◆ RF450R (Inch)

Product code	Model no.
H310721	RF450R6T-BWN
H310745	RF450R6T-BWQ
H310769	RF450R6T-CWN
H310793	RF450R6T-CWQ
H310722	RF450R8T-BWN
H310746	RF450R8T-BWQ
H310770	RF450R8T-CWN
H310794	RF450R8T-CWQ
H310723	RF450R10T-BWN
H310747	RF450R10T-BWQ
H310771	RF450R10T-CWN
H310795	RF450R10T-CWQ
H310724	RF450R12T-BWN
H310748	RF450R12T-BWQ
H310772	RF450R12T-CWN
H310796	RF450R12T-CWQ

◆ RF650R (Inch)

Product code	Model no.
H310725	RF650R6T-BWN
H310749	RF650R6T-BWQ
H310773	RF650R6T-CWN
H310797	RF650R6T-CWQ
H310726	RF650R8T-BWN
H310750	RF650R8T-BWQ
H310774	RF650R8T-CWN
H310798	RF650R8T-CWQ
H310727	RF650R10T-BWN
H310751	RF650R10T-BWQ
H310775	RF650R10T-CWN
H310799	RF650R10T-CWQ
H310728	RF650R12T-BWN
H310752	RF650R12T-BWQ
H310776	RF650R12T-CWN
H310800	RF650R12T-CWQ

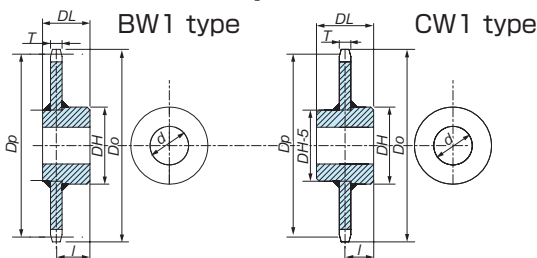
◆ RF214R (Inch)

Product code	Model no.
H310729	RF214R6T-BWN
H310753	RF214R6T-BWQ
H310777	RF214R6T-CWN
H310801	RF214R6T-CWQ
H310730	RF214R8T-BWN
H310754	RF214R8T-BWQ
H310778	RF214R8T-CWN
H310802	RF214R8T-CWQ
H310731	RF214R10T-BWN
H310755	RF214R10T-BWQ
H310779	RF214R10T-CWN
H310803	RF214R10T-CWQ
H310732	RF214R12T-BWN
H310756	RF214R12T-BWQ
H310780	RF214R12T-CWN
H310804	RF214R12T-CWQ

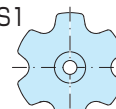
BW1 and CW1 type R-roller Sprockets

RF12200 R 6T – BW1 N

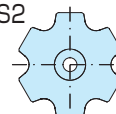
Chain no.	No. of teeth	Hub type
Roller type		BW1·CW1
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)

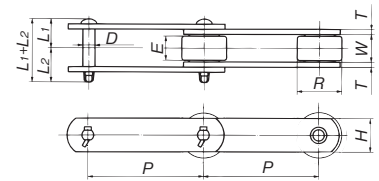


Measurement system	Chain no. (Chain pitch)	No. of teeth <i>N</i>	Basic sprocket size and shape				Common basic specification					BW1 type		CW1 type		Time for delivery	
			Pitch circle dia. <i>Dp</i>	Outer dia. <i>Do</i>	Tooth width <i>T</i>	Tooth shape	Bore dia. <i>d</i>		Hub dia.	Overall length	Approx. mass kg	Hub NO.	Center distance <i>l</i>	Hub NO.	Center distance <i>l</i>	Common to BW1 and CW1	
							Pilot bore	Max.	<i>DH</i>	<i>DL</i>						N [Non-hardened]	Q [Hardened teeth]
Metric pitch	RF12200R (200)	6	400.0	418	28 ⁰ _{-1.0}	S2	55	110	157	135	41.3	TB2	110.0	TC2	67.5	1W	10D
		8	522.6	551		S2	60	120	177	150	67.4	TB3	125.0	TC3	75.0		
		10	647.2	682		S2	65	130	187	160	96.6	TB4	135.0	TC4	80.0	2W	3W
		12	772.7	810		S2	75	145	207	180	136.9	TB5	155.0	TC5	90.0		
	RF12250R (250)	6	500.0	515	28 ⁰ _{-1.0}	S2	60	120	177	150	63.4	TB3	125.0	TC3	75.0	1W	10D
		8	653.3	680		S2	65	130	187	160	97.9	TB4	135.0	TC4	80.0		
		10	809.0	841		S2	75	145	207	180	146.8	TB5	155.0	TC5	90.0	2W	3W
		12	965.9	1002		S2	80	160	227	200	207.7	TB6	175.0	TC6	100.0		
	RF17200R (200)	6	400.0	426	40 ⁰ _{-1.2}	S2	60	120	177	150	57.3	TB3	118.0	TC3	75.0	2W	3W
		8	522.6	562		S2	75	145	207	180	98.1	TB5	148.0	TC5	90.0		
		10	647.2	691		S1	75	145	207	180	134.0	TB5	148.0	TC5	90.0		
		12	772.7	821		S1	80	160	227	200	190.1	TB6	168.0	TC6	100.0		
	RF17250R (250)	6	500.0	522	40 ⁰ _{-1.2}	S2	65	130	187	160	83.3	TB4	128.0	TC4	80.0		
		8	653.3	689		S2	75	145	207	180	135.9	TB5	148.0	TC5	90.0		
		10	809.0	850		S2	80	160	227	200	204.2	TB6	168.0	TC6	100.0		
		12	965.9	1012		S2	80	160	227	220	278.5	TB7	188.0	TC7	110.0		
	RF17300R (300)	6	600.0	619	40 ⁰ _{-1.2}	S2	75	145	207	180	119.5	TB5	148.0	TC5	90.0		
		8	783.9	816		S2	80	160	227	200	194.4	TB6	168.0	TC6	100.0		
		10	970.8	1010		S2	80	160	227	220	280.8	TB7	188.0	TC7	110.0		
		12	1159.1	1204		S2	85	175	247	240	395.7	TB9	208.0	TC9	120.0		
	RF26250R (250)	6	500.0	535	45 ± 1.3	S2	75	145	207	180	98.7	TB5	144.0	TC5	90.0		
		8	653.3	703		S2	80	160	227	200	159.7	TB6	164.0	TC6	100.0		
		10	809.0	864		S1	85	175	247	240	244.1	TB9	204.0	TC9	120.0		
		12	965.9	1026		S1	85	175	247	240	321.4	TB9	204.0	TC9	120.0		
	RF26300R (300)	6	600.0	631	45 ± 1.3	S2	80	160	227	220	146.7	TB7	184.0	TC7	110.0		
		8	783.9	829		S2	85	175	247	240	233.0	TB9	204.0	TC9	120.0		
		10	970.8	1025		S1	85	175	247	240	324.0	TB9	204.0	TC9	120.0		
		12	1159.1	1219		S1	95	190	267	270	456.4	TB11	234.0	TC11	135.0		
	RF36300R (300)	6	600.0	653	55 ± 1.3	S2	85	175	247	220	174.2	TB8	178.0	TC8	110.0		
		8	783.9	853		S2	95	190	267	240	276.2	TB10	198.0	TC10	120.0		
		10	970.8	1046		S1	95	190	267	270	398.9	TB11	228.0	TC11	135.0		
		12	1159.1	1234		S1	100	210	297	260	550.8	TB12	218.0	TC12	130.0		
Inch pitch	RF6205R (152.4)	6	304.8	330	28 ⁰ _{-1.0}	S2	50	100	147	125	27.0	TB1	100.0	TC1	62.5	2W	3W
		8	398.2	432		S1	55	110	157	135	41.1	TB2	110.0	TC2	67.5		
		10	493.2	528		S1	60	120	177	150	62.2	TB3	125.0	TC3	75.0		
		12	588.8	623		S1	60	120	177	150	80.0	TB3	125.0	TC3	75.0		
	RF212R (152.4)	6	304.8	339	28 ⁰ _{-1.0}	S1	55	110	157	135	29.8	TB2	110.0	TC2	67.5		
		8	398.2	440		S1	60	120	177	150	47.6	TB3	125.0	TC3	75.0		
		10	493.2	535		S1	65	130	187	160	66.2	TB4	135.0	TC4	80.0		
		12	588.8	631		S1	75	145	207	180	93.7	TB5	155.0	TC5	90.0		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller		Inner link	Plate		Pin			
		Roller dia. <i>R</i>	Contact track width <i>E</i>		Width <i>H</i>	Thickness <i>T</i>	Dia. <i>D</i>	<i>L</i> ₁ + <i>L</i> ₂	<i>L</i> ₁	<i>L</i> ₂
Metric	RF12200R	65	32	37.1	44.5	7.9	15.9	83.5	43	40.5
	RF17200R	80	44	51.4	50.8	9.5	19.1	109.5	58	51.5
	RF17250R									
	RF17300R	100	50	57.2	63.5	9.5	22.2	116.5	61	55.5
	RF26200R									
	RF26250R									
	RF26300R									
Inch	RF36250R	125	56	66.7	76.2	12.7	25.4	146	68	78.0
	RF36300R									
	RF6205R	57.2	32.0	37.1	44.5	7.9	15.9	83.5	40.5	43
	RF212R	69.9	32.5	37.1	50.8	9.5	19.1	95.5	44.5	51



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF12200R

Product code	Model no.
H310041	RF12200R6T-BW1N
H310101	RF12200R6T-BW1Q
H310161	RF12200R6T-CW1N
H310221	RF12200R6T-CW1Q
H310042	RF12200R8T-BW1N
H310102	RF12200R8T-BW1Q
H310168	RF12200R8T-CW1N
H310222	RF12200R8T-CW1Q
H310043	RF12200R10T-BW1N
H310103	RF12200R10T-BW1Q
H310162	RF12200R10T-CW1N
H310223	RF12200R10T-CW1Q
H310044	RF12200R12T-BW1N
H310104	RF12200R12T-BW1Q
H310163	RF12200R12T-CW1N
H310224	RF12200R12T-CW1Q

◆ RF12250R

Product code	Model no.
H310045	RF12250R6T-BW1N
H310105	RF12250R6T-BW1Q
H310164	RF12250R6T-CW1N
H310225	RF12250R6T-CW1Q
H310046	RF12250R8T-BW1N
H310106	RF12250R8T-BW1Q
H310165	RF12250R8T-CW1N
H310226	RF12250R8T-CW1Q
H310047	RF12250R10T-BW1N
H310107	RF12250R10T-BW1Q
H310166	RF12250R10T-CW1N
H310227	RF12250R10T-CW1Q
H310048	RF12250R12T-BW1N
H310108	RF12250R12T-BW1Q
H310167	RF12250R12T-CW1N
H310228	RF12250R12T-CW1Q

◆ RF17200R

Product code	Model no.
H310049	RF17200R6T-BW1N
H310109	RF17200R6T-BW1Q
H310169	RF17200R6T-CW1N
H310229	RF17200R6T-CW1Q
H310050	RF17200R8T-BW1N
H310110	RF17200R8T-BW1Q
H310170	RF17200R8T-CW1N
H310230	RF17200R8T-CW1Q
H310051	RF17200R10T-BW1N
H310111	RF17200R10T-BW1Q
H310171	RF17200R10T-CW1N
H310231	RF17200R10T-CW1Q
H310052	RF17200R12T-BW1N
H310112	RF17200R12T-BW1Q
H310172	RF17200R12T-CW1N
H310232	RF17200R12T-CW1Q

◆ RF17250R

Product code	Model no.
H310053	RF17250R6T-BW1N
H310113	RF17250R6T-BW1Q
H310173	RF17250R6T-CW1N
H310233	RF17250R6T-CW1Q
H310054	RF17250R8T-BW1N
H310114	RF17250R8T-BW1Q
H310174	RF17250R8T-CW1N
H310234	RF17250R8T-CW1Q
H310055	RF17250R10T-BW1N
H310115	RF17250R10T-BW1Q
H310175	RF17250R10T-CW1N
H310235	RF17250R10T-CW1Q
H310056	RF17250R12T-BW1N
H310116	RF17250R12T-BW1Q
H310176	RF17250R12T-CW1N
H310236	RF17250R12T-CW1Q

◆ RF17300R

Product code	Model no.
H310057	RF17300R6T-BW1N
H310117	RF17300R6T-BW1Q
H310177	RF17300R6T-CW1N
H310237	RF17300R6T-CW1Q
H310058	RF17300R8T-BW1N
H310118	RF17300R8T-BW1Q
H310178	RF17300R8T-CW1N
H310238	RF17300R8T-CW1Q
H310059	RF17300R10T-BW1N
H310119	RF17300R10T-BW1Q
H310179	RF17300R10T-CW1N
H310239	RF17300R10T-CW1Q
H310060	RF17300R12T-BW1N
H310120	RF17300R12T-BW1Q
H310180	RF17300R12T-CW1N
H310240	RF17300R12T-CW1Q

◆ RF26250R

Product code	Model no.
H31	RF26250R6T-BW1N
H31	RF26250R6T-BW1Q
H31	RF26250R6T-CW1N
H31	RF26250R6T-CW1Q
H31	RF26250R8T-BW1N
H31	RF26250R8T-BW1Q
H31	RF26250R8T-CW1N
H31	RF26250R8T-CW1Q
H31	RF26250R10T-BW1N
H31	RF26250R10T-BW1Q
H31	RF26250R10T-CW1N
H31	RF26250R10T-CW1Q
H31	RF26250R12T-BW1N
H31	RF26250R12T-BW1Q
H31	RF26250R12T-CW1N
H31	RF26250R12T-CW1Q

◆ RF26300R

Product code	Model no.
H31	RF26300R6T-BW1N
H31	RF26300R6T-BW1Q
H31	RF26300R6T-CW1N
H31	RF26300R6T-CW1Q
H31	RF26300R8T-BW1N
H31	RF26300R8T-BW1Q
H31	RF26300R8T-CW1N
H31	RF26300R8T-CW1Q
H31	RF26300R10T-BW1N
H31	RF26300R10T-BW1Q
H31	RF26300R10T-CW1N
H31	RF26300R10T-CW1Q
H31	RF26300R12T-BW1N
H31	RF26300R12T-BW1Q
H31	RF26300R12T-CW1N
H31	RF26300R12T-CW1Q

◆ RF36300R

Product code	Model no.
H31	RF36300R6T-BW1N
H31	RF36300R6T-BW1Q
H31	RF36300R6T-CW1N
H31	RF36300R6T-CW1Q
H31	RF36300R8T-BW1N
H31	RF36300R8T-BW1Q
H31	RF36300R8T-CW1N
H31	RF36300R8T-CW1Q
H31	RF36300R10T-BW1N
H31	RF36300R10T-BW1Q
H31	RF36300R10T-CW1N
H31	RF36300R10T-CW1Q
H31	RF36300R12T-BW1N
H31	RF36300R12T-BW1Q
H31	RF36300R12T-CW1N
H31	RF36300R12T-CW1Q

◆ RF6205R (Inch)

Product code	Model no.
H310733	RF6205R6T-BW1N
H310757	RF6205R6T-BW1Q
H310781	RF6205R6T-CW1N
H310805	RF6205R6T-CW1Q
H310734	RF6205R8T-BW1N
H310758	RF6205R8T-BW1Q
H310782	RF6205R8T-CW1N
H310806	RF6205R8T-CW1Q
H310735	RF6205R10T-BW1N
H310759	RF6205R10T-BW1Q
H310783	RF6205R10T-CW1N
H310807	RF6205R10T-CW1Q
H310736	RF6205R12T-BW1N
H310760	RF6205R12T-BW1Q
H310784	RF6205R12T-CW1N
H310808	RF6205R12T-CW1Q

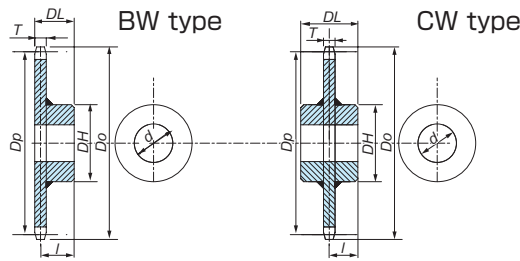
◆ RF212R (Inch)

Product code	Model no.
H310737	RF212R6T-BW1N
H310761	RF212R6T-BW1Q
H310785	RF212R6T-CW1N
H310809	RF212R6T-CW1Q
H310738	RF212R8T-BW1N
H310762	RF212R8T-BW1Q
H310786	RF212R8T-CW1N
H310810	RF212R8T-CW1Q
H310739	RF212R10T-BW1N
H310763	RF212R10T-BW1Q
H310787	RF212R10T-CW1N
H310811	RF212R10T-CW1Q
H310740	RF212R12T-BW1N
H310764	RF212R12T-BW1Q
H310788	RF212R12T-CW1N
H310812	RF212R12T-CW1Q

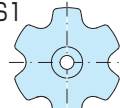
BW and CW type F-roller Sprockets

RF03075 F 6T – BW N

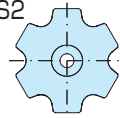
Chain no.	No. of teeth	Hub type
Roller type		BW·CW
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth Profile: S2
(Flat teeth)

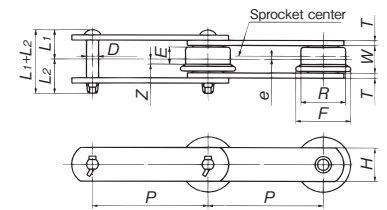


Measurement system	Chain no. (Chain pitch)	No. of teeth N	Basic sprocket size and shape				Common basic specification					BW type		CW type		Time for delivery	
			Pitch circle dia. Dp	Outer dia. Do	Tooth width T	Tooth shape	Bore dia. d		Hub dia. DH	Overall length DL	Approx. mass kg	Hub NO.	Center distance l	Hub NO.	Center distance l	Common to BW and CW	
							Pilot bore	Max.								N [Non-hardened]	Q [Hardened teeth]
Metric pitch	RF03075F (75)	6	150.0	158	8.9 ⁰ _{-0.7}	S1	18	50	73	54	2.6	SB1	49.5	SC1	27.0	3D	1W
		8	196.0	209		S1	18	55	83	59	4.1	SB2	54.5	SC2	29.5		
		10	242.7	259		S1	18	60	93	64	6.0	SB3	59.5	SC3	32.0		
		12	289.8	308		S1	18	60	93	64	7.4	SB3	59.5	SC3	32.0		
	RF03100F (100)	6	200.0	206	8.9 ⁰ _{-0.7}	S2	18	55	83	59	4.2	SB2	54.5	SC2	29.5		
		8	261.3	272		S2	18	60	93	64	6.5	SB3	59.5	SC3	32.0		
		10	323.6	336		S1	18	65	98	69	9.2	SB4	64.5	SC4	34.5		
		12	386.4	401		S1	18	65	98	69	11.6	SB4	64.5	SC4	34.5		
	RF05100F (100)	6	200.0	205	11.9 ⁰ _{-0.8}	S1	28	75	107	80	7.3	SB5	74.0	SC5	40.0	2W	3W
		8	261.3	273		S1	28	75	107	80	9.4	SB5	74.0	SC5	40.0		
		10	323.6	340		S1	33	80	117	88	13.5	SB6	82.0	SC6	44.0		
		12	386.4	405		S1	33	85	127	98	18.8	SB7	92.0	SC7	49.0		
	RF05125F (125)	6	250.0	256	11.9 ⁰ _{-0.8}	S2	28	75	107	80	9.0	SB5	74.0	SC5	40.0		
		8	326.6	338		S2	33	80	117	88	13.6	SB6	82.0	SC6	44.0		
		10	404.5	420		S2	33	85	127	98	19.9	SB7	92.0	SC7	49.0		
		12	483.0	499		S1	33	95	137	110	27.7	SB8	104.0	SC8	55.0		
	RF05150F (150)	6	300.0	304	11.9 ⁰ _{-0.8}	S2	33	80	117	88	12.4	SB6	82.0	SC6	44.0	3D	1W
		8	392.0	402		S2	33	85	127	98	19.2	SB7	92.0	SC7	49.0		
		10	485.4	500		S2	33	95	137	110	27.9	SB8	104.0	SC8	55.0		
		12	579.6	596		S2	33	95	137	110	35.2	SB8	104.0	SC8	55.0		
	RF08125F (125)	6	250.0	263	15 ⁰ _{-0.8}	S2	28	75	107	83	10.2	SB5	75.5	SC5	41.5	2W	3W
		8	326.6	346		S2	33	80	117	91	15.7	SB6	83.5	SC6	45.5		
		10	404.5	426		S1	33	85	127	101	23.0	SB7	93.5	SC7	50.5		
		12	483.0	508		S1	33	95	137	113	32.1	SB8	105.5	SC8	56.5		
	RF08150F (150)	6	300.0	311	15 ⁰ _{-0.8}	S2	33	80	117	91	14.1	SB6	83.5	SC6	45.5	3D	1W
		8	392.0	410		S2	33	85	127	101	22.1	SB7	93.5	SC7	50.5		
		10	485.4	507		S2	33	95	137	113	32.4	SB8	105.5	SC8	56.5		
		12	579.6	604		S2	33	95	137	113	41.6	SB8	105.5	SC8	56.5		
	RF10125F (125)	6	250.0	262	15 ⁰ _{-0.8}	S2	33	85	127	101	13.6	SB7	93.5	SC7	50.5	2W	3W
		8	326.6	343		S1	33	95	137	113	20.4	SB8	105.5	SC8	56.5		
		10	404.5	426		S1	38	100	147	116	27.5	SB9	108.5	SC9	58.0		
		12	483.0	508		S1	38	110	157	126	37.3	SB10	118.5	SC10	63.0		
	RF10150F (150)	6	300.0	309	15 ⁰ _{-0.8}	S2	33	95	137	113	18.9	SB8	105.5	SC8	56.5	3D	1W
		8	392.0	408		S2	38	100	147	116	26.6	SB9	108.5	SC9	58.0		
		10	485.4	506		S2	38	110	157	126	37.5	SB10	118.5	SC10	63.0		
		12	579.6	601		S1	38	115	167	137	50.8	SB11	129.5	SC11	68.5		
Inch pitch	RF450F (101.6)	6	203.2	217	15 ⁰ _{-0.8}	S1	28	75	107	83	8.2	SB5	75.5	SC5	41.5	3D	1W
		8	265.5	286		S1	28	75	107	83	10.4	SB5	75.5	SC5	41.5		
		10	328.8	354		S1	33	80	117	91	15.7	SB6	83.5	SC6	45.5		
		12	392.6	419		S1	33	85	127	101	22.0	SB7	93.5	SC7	50.5		
	RF650F (152.4)	6	304.8	321	18 ⁰ _{-0.8}	S2	33	80	117	94	16.1	SB6	85.0	SC6	47.0	2W	3W
		8	398.2	422		S2	33	85	127	104	25.4	SB7	95.0	SC7	52.0		
		10	493.2	521		S2	33	95	137	116	37.5	SB8	107.0	SC8	58.0		
		12	588.8	618		S1	33	95	137	116	49.0	SB8	107.0	SC8	58.0		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller				Inner link		Plate		Pin		
		Roller dia. <i>R</i>	Flange width <i>F</i>	Contact track width <i>E</i>	Off center <i>e</i>	Inner width <i>W</i>	Width <i>H</i>	Thickness <i>T</i>	<i>Dia.</i> <i>D</i>	$L_1 + L_2$ <i>L_1</i>	<i>L_1</i>	<i>L_2</i>
Metric	RF03075F	31.8	42	12	1.8	16.1	22	3.2	8	38	18	20
	RF03100F											
	RF05100F	40	50	14	2.5	22	32	4.5	11.3	53.5	25	28.5
	RF05125F											
	RF05150F											
	RF08125F	44.5	55	18	2.5	27	28.6	6.3	11.3	65.5	31	34.5
	RF08150F											
	RF10100F											
Inch	RF10125F	50.8	65	20	3	30	38.1	6.3	14.5	69	33	36
	RF10150F											
	RF450F	44.5	55	18	2.5	27	28.6	6.3	11.3	65.5	31	34.5
	RF650F	50.8	65	20	3	30.2	38.1	6.3	11.3	69	32.5	36.5



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF03075F

Product code	Model no.
H310241	RF03075F6T-BWN
H310297	RF03075F6T-BWQ
H310353	RF03075F6T-CWN
H310409	RF03075F6T-CWQ
H310242	RF03075F8T-BWN
H310298	RF03075F8T-BWQ
H310354	RF03075F8T-CWN
H310410	RF03075F8T-CWQ
H310243	RF03075F10T-BWN
H310299	RF03075F10T-BWQ
H310355	RF03075F10T-CWN
H310411	RF03075F10T-CWQ
H310244	RF03075F12T-BWN
H310300	RF03075F12T-BWQ
H310356	RF03075F12T-CWN
H310412	RF03075F12T-CWQ

◆ RF03100F

Product code	Model no.
H310245	RF03100F6T-BWN
H310301	RF03100F6T-BWQ
H310357	RF03100F6T-CWN
H310413	RF03100F6T-CWQ
H310246	RF03100F8T-BWN
H310302	RF03100F8T-BWQ
H310358	RF03100F8T-CWN
H310414	RF03100F8T-CWQ
H310247	RF03100F10T-BWN
H310303	RF03100F10T-BWQ
H310359	RF03100F10T-CWN
H310415	RF03100F10T-CWQ
H310248	RF03100F12T-BWN
H310304	RF03100F12T-BWQ
H310360	RF03100F12T-CWN
H310416	RF03100F12T-CWQ

◆ RF05100F

Product code	Model no.
H310249	RF05100F6T-BWN
H310305	RF05100F6T-BWQ
H310361	RF05100F6T-CWN
H310417	RF05100F6T-CWQ
H310250	RF05100F8T-BWN
H310306	RF05100F8T-BWQ
H310362	RF05100F8T-CWN
H310418	RF05100F8T-CWQ
H310251	RF05100F10T-BWN
H310307	RF05100F10T-BWQ
H310363	RF05100F10T-CWN
H310419	RF05100F10T-CWQ
H310252	RF05100F12T-BWN
H310308	RF05100F12T-BWQ
H310364	RF05100F12T-CWN
H310420	RF05100F12T-CWQ

◆ RF05125F

Product code	Model no.
H310253	RF05125F6T-BWN
H310309	RF05125F6T-BWQ
H310365	RF05125F6T-CWN
H310421	RF05125F6T-CWQ
H310254	RF05125F8T-BWN
H310310	RF05125F8T-BWQ
H310366	RF05125F8T-CWN
H310422	RF05125F8T-CWQ
H310255	RF05125F10T-BWN
H310311	RF05125F10T-BWQ
H310367	RF05125F10T-CWN
H310423	RF05125F10T-CWQ
H310256	RF05125F12T-BWN
H310312	RF05125F12T-BWQ
H310368	RF05125F12T-CWN
H310424	RF05125F12T-CWQ

◆ RF05150F

Product code	Model no.
H310257	RF05150F6T-BWN
H310313	RF05150F6T-BWQ
H310369	RF05150F6T-CWN
H310425	RF05150F6T-CWQ
H310258	RF05150F8T-BWN
H310314	RF05150F8T-BWQ
H310370	RF05150F8T-CWN
H310426	RF05150F8T-CWQ
H310259	RF05150F10T-BWN
H310315	RF05150F10T-BWQ
H310371	RF05150F10T-CWN
H310427	RF05150F10T-CWQ
H310260	RF05150F12T-BWN
H310316	RF05150F12T-BWQ
H310372	RF05150F12T-CWN
H310428	RF05150F12T-CWQ

◆ RF08125F

Product code	Model no.
H310261	RF08125F6T-BWN
H310317	RF08125F6T-BWQ
H310373	RF08125F6T-CWN
H310429	RF08125F6T-CWQ
H310262	RF08125F8T-BWN
H310318	RF08125F8T-BWQ
H310374	RF08125F8T-CWN
H310430	RF08125F8T-CWQ
H310263	RF08125F10T-BWN
H310319	RF08125F10T-BWQ
H310375	RF08125F10T-CWN
H310431	RF08125F10T-CWQ
H310264	RF08125F12T-BWN
H310320	RF08125F12T-BWQ
H310376	RF08125F12T-CWN
H310432	RF08125F12T-CWQ

◆ RF08150F

Product code	Model no.
H310265	RF08150F6T-BWN
H310321	RF08150F6T-BWQ
H310377	RF08150F6T-CWN
H310433	RF08150F6T-CWQ
H310266	RF08150F8T-BWN
H310322	RF08150F8T-BWQ
H310378	RF08150F8T-CWN
H310434	RF08150F8T-CWQ
H310267	RF08150F10T-BWN
H310323	RF08150F10T-BWQ
H310379	RF08150F10T-CWN
H310435	RF08150F10T-CWQ
H310268	RF08150F12T-BWN
H310324	RF08150F12T-BWQ
H310380	RF08150F12T-CWN
H310436	RF08150F12T-CWQ

◆ RF10125F

Product code	Model no.
H310269	RF10125F6T-BWN
H310325	RF10125F6T-BWQ
H310381	RF10125F6T-CWN
H310437	RF10125F6T-CWQ
H310270	RF10125F8T-BWN
H310326	RF10125F8T-BWQ
H310382	RF10125F8T-CWN
H310438	RF10125F8T-CWQ
H310271	RF10125F10T-BWN
H310327	RF10125F10T-BWQ
H310383	RF10125F10T-CWN
H310439	RF10125F10T-CWQ
H310272	RF10125F12T-BWN
H310328	RF10125F12T-BWQ
H310384	RF10125F12T-CWN
H310440	RF10125F12T-CWQ

◆ RF10150F

Product code	Model no.
H310273	RF10150F6T-BWN
H310329	RF10150F6T-BWQ
H310385	RF10150F6T-CWN
H310441	RF10150F6T-CWQ
H310274	RF10150F8T-BWN
H310330	RF10150F8T-BWQ
H310386	RF10150F8T-CWN
H310442	RF10150F8T-CWQ
H310275	RF10150F10T-BWN
H310331	RF10150F10T-BWQ
H310387	RF10150F10T-CWN
H310443	RF10150F10T-CWQ
H310276	RF10150F12T-BWN
H310332	RF10150F12T-BWQ
H310388	RF10150F12T-CWN
H310444	RF10150F12T-CWQ

◆ RF450F (Inch)

Product code	Model no.
H310813	RF450F6T-BWN
H310825	RF450F6T-BWQ
H310837	RF450F6T-CWN
H310849	RF450F6T-CWQ
H310814	RF450F8T-BWN
H310826	RF450F8T-BWQ
H310838	RF450F8T-CWN
H310850	RF450F8T-CWQ
H310815	RF450F10T-BWN
H310827	RF450F10T-BWQ
H310839	RF450F10T-CWN
H310851	RF450F10T-CWQ
H310816	RF450F12T-BWN
H310828	RF450F12T-BWQ
H310840	RF450F12T-CWN
H310852	RF450F12T-CWQ

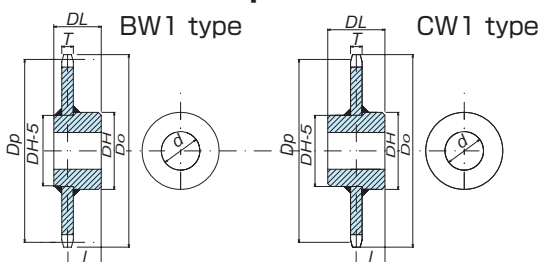
◆ RF650F (Inch)

Product code	Model no.
H310817	RF650F6T-BWN
H310829	RF650F6T-BWQ
H310841	RF650F6T-CWN
H310853	RF650F6T-CWQ
H310818	RF650F8T-BWN
H310830	RF650F8T-BWQ
H310842	RF650F8T-CWN
H310854	RF650F8T-CWQ
H310819	RF650F10T-BWN
H310831	RF650F10T-BWQ
H310843	RF650F10T-CWN
H310855	RF650F10T-CWQ
H310820	RF650F12T-BWN
H310832	RF650F12T-BWQ
H310844	RF650F12T-CWN
H310856	RF650F12T-CWQ

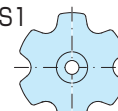
BW1 and CW1 type F-roller Sprockets

RF12200 F 6T – BW1 N

Chain no.	No. of teeth	Hub type
Roller type		BW1·CW1
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)

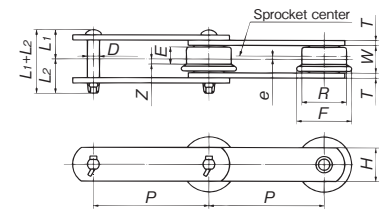


Measurement system	Chain no. (Chain pitch)	No. of teeth N	Basic sprocket size and shape				Common basic specification					BW1 type		CW1 type		Time for delivery	
			Pitch circle dia. Dp	Outer dia. Do	Tooth width T	Tooth shape	Bore dia. d		Hub dia.	Overall length	Approx. mass	Hub NO.	Center distance	Hub NO.	Center distance	Common to BW1 and CW1	
							Pilot bore	Max.	DH	DL	kg		I		I	N [Non-hardened]	Q [Hardened teeth]
Metric pitch	RF12200F (200)	6	400.0	418	18 ⁰ _{-0.8}	S2	55	110	157	135	33.0	TB2	115.0	TC2	67.5	1W	10D
		8	522.6	551		S2	60	120	177	150	52.5	TB3	130.0	TC3	75.0		
		10	647.2	682		S2	65	130	187	160	72.9	TB4	140.0	TC4	80.0		
		12	772.7	810		S2	75	145	207	180	102.8	TB5	160.0	TC5	90.0	2W	3W
	RF12250F (250)	6	500.0	515	18 ⁰ _{-0.8}	S2	60	120	177	150	49.9	TB3	130.0	TC3	75.0	1W	10D
		8	653.3	680		S2	65	130	187	160	73.8	TB4	140.0	TC4	80.0		
		10	809.0	841		S2	75	145	207	180	109.1	TB5	160.0	TC5	90.0		
		12	965.9	1002		S2	80	160	227	200	153.4	TB6	180.0	TC6	100.0	2W	3W
	RF17200F (200)	6	400.0	426	28 ⁰ _{-1.0}	S2	60	120	177	150	47.8	TB3	125.0	TC3	75.0	2W	3W
		8	522.6	562		S2	75	145	207	180	81.0	TB5	155.0	TC5	90.0		
		10	647.2	691		S1	75	145	207	180	106.2	TB5	155.0	TC5	90.0		
		12	772.7	821		S1	80	160	227	200	149.8	TB6	175.0	TC6	100.0		
	RF17250F (250)	6	500.0	522	28 ⁰ _{-1.0}	S2	65	130	187	160	67.4	TB4	135.0	TC4	80.0		
		8	653.3	689		S2	75	145	207	180	107.5	TB5	155.0	TC5	90.0		
		10	809.0	850		S2	80	160	227	200	159.7	TB6	175.0	TC6	100.0		
		12	965.9	1012		S2	80	160	227	220	213.3	TB7	195.0	TC7	110.0		
	RF17300F (300)	6	600.0	619	28 ⁰ _{-1.0}	S2	75	145	207	180	96.0	TB5	155.0	TC5	90.0		
		8	783.9	816		S2	80	160	227	200	152.8	TB6	175.0	TC6	100.0		
		10	970.8	1010		S2	80	160	227	220	214.9	TB7	195.0	TC7	110.0		
		12	1159.1	1204		S2	85	175	247	240	300.8	TB9	215.0	TC9	120.0		
	RF26250F (250)	6	500.0	535	30 ⁰ _{-1.0}	S2	75	145	207	180	79.6	TB5	150.0	TC5	90.0		
		8	653.3	703		S2	80	160	227	200	125.0	TB6	170.0	TC6	100.0		
		10	809.0	864		S1	85	175	247	240	189.3	TB9	210.0	TC9	120.0		
		12	965.9	1026		S1	85	175	247	240	240.7	TB9	210.0	TC9	120.0		
	RF26300F (300)	6	600.0	631	30 ⁰ _{-1.0}	S2	80	160	227	220	118.2	TB7	190.0	TC7	110.0		
		8	783.9	829		S2	85	175	247	240	181.9	TB9	210.0	TC9	120.0		
		10	970.8	1025		S1	85	175	247	240	242.5	TB9	210.0	TC9	120.0		
		12	1159.1	1219		S1	95	190	267	270	338.8	TB11	240.0	TC11	135.0		
	RF36300F (300)	6	600.0	653	33.7 ⁰ _{-1.2}	S2	85	175	247	220	135.0	TB8	188.0	TC8	110.0		
		8	783.9	853		S2	95	190	267	240	204.9	TB10	208.0	TC10	120.0		
		10	970.8	1046		S1	95	190	267	270	284.5	TB11	238.0	TC11	135.0		
		12	1159.1	1234		S1	100	210	297	260	386.0	TB12	228.0	TC12	130.0		
Inch pitch	RF6205F (152.4)	6	304.8	330	18 ⁰ _{-0.8}	S2	50	100	147	125	22.6	TB1	105.0	TC1	62.5	2W	3W
		8	398.2	432		S2	55	110	157	135	32.8	TB2	115.0	TC2	67.5		
		10	493.2	528		S1	60	120	177	150	49.1	TB3	130.0	TC3	75.0		
		12	588.8	623		S1	60	120	177	150	60.6	TB3	130.0	TC3	75.0		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller				Inner link	Plate			Pin			
		Roller dia. <i>R</i>	Flange width <i>F</i>	Contact track width <i>E</i>	Off center <i>e</i>		Width <i>H</i>	Thickness <i>T</i>		<i>Dia.</i> <i>D</i>	$L_1 + L_2$	<i>L</i> ₁	<i>L</i> ₂
Metric	RF12200F	65	80	24	4	37.1	44.5	7.9	15.9	83.5	40.5	43	
	RF12250F												
	RF17200F	80	100	34	5	51.4	50.8	9.5	19.1	109.5	51.5	58	
	RF17250F												
	RF17300F	100	125	38	6	57.2	63.5	9.5	22.2	116.5	55.5	61.0	
	RF26200F												
	RF26250F	125	150	42	14	66.7	76.2	12.7	25.4	146	68	78.0	
	RF26300F												
Inch	RF6205F	57.2	70	25	3.5	37.1	44.5	7.9	15.9	83.5	40.5	43	



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF12200F

Product code	Model no.
H310277	RF12200F6T-BW1N
H310333	RF12200F6T-BW1Q
H310389	RF12200F6T-CW1N
H310445	RF12200F6T-CW1Q
H310278	RF12200F8T-BW1N
H310334	RF12200F8T-BW1Q
H310390	RF12200F8T-CW1N
H310446	RF12200F8T-CW1Q
H310279	RF12200F10T-BW1N
H310335	RF12200F10T-BW1Q
H310391	RF12200F10T-CW1N
H310447	RF12200F10T-CW1Q
H310280	RF12200F12T-BW1N
H310336	RF12200F12T-BW1Q
H310392	RF12200F12T-CW1N
H310448	RF12200F12T-CW1Q

◆ RF12250F

Product code	Model no.
H310281	RF12250F6T-BW1N
H310337	RF12250F6T-BW1Q
H310393	RF12250F6T-CW1N
H310449	RF12250F6T-CW1Q
H310282	RF12250F8T-BW1N
H310338	RF12250F8T-BW1Q
H310394	RF12250F8T-CW1N
H310450	RF12250F8T-CW1Q
H310283	RF12250F10T-BW1N
H310339	RF12250F10T-BW1Q
H310395	RF12250F10T-CW1N
H310451	RF12250F10T-CW1Q
H310284	RF12250F12T-BW1N
H310340	RF12250F12T-BW1Q
H310396	RF12250F12T-CW1N
H310452	RF12250F12T-CW1Q

◆ RF17200F

Product code	Model no.
H310285	RF17200F6T-BW1N
H310341	RF17200F6T-BW1Q
H310397	RF17200F6T-CW1N
H310453	RF17200F6T-CW1Q
H310286	RF17200F8T-BW1N
H310342	RF17200F8T-BW1Q
H310398	RF17200F8T-CW1N
H310454	RF17200F8T-CW1Q
H310287	RF17200F10T-BW1N
H310343	RF17200F10T-BW1Q
H310399	RF17200F10T-CW1N
H310455	RF17200F10T-CW1Q
H310288	RF17200F12T-BW1N
H310344	RF17200F12T-BW1Q
H310400	RF17200F12T-CW1N
H310456	RF17200F12T-CW1Q

◆ RF17250F

Product code	Model no.
H310289	RF17250F6T-BW1N
H310345	RF17250F6T-BW1Q
H310401	RF17250F6T-CW1N
H310457	RF17250F6T-CW1Q
H310290	RF17250F8T-BW1N
H310346	RF17250F8T-BW1Q
H310402	RF17250F8T-CW1N
H310458	RF17250F8T-CW1Q
H310291	RF17250F10T-BW1N
H310347	RF17250F10T-BW1Q
H310403	RF17250F10T-CW1N
H310459	RF17250F10T-CW1Q
H310292	RF17250F12T-BW1N
H310348	RF17250F12T-BW1Q
H310404	RF17250F12T-CW1N
H310460	RF17250F12T-CW1Q

◆ RF17300F

Product code	Model no.
H310293	RF17300F6T-BW1N
H310349	RF17300F6T-BW1Q
H310405	RF17300F6T-CW1N
H310461	RF17300F6T-CW1Q
H310294	RF17300F8T-BW1N
H310350	RF17300F8T-BW1Q
H310406	RF17300F8T-CW1N
H310462	RF17300F8T-CW1Q
H310295	RF17300F10T-BW1N
H310351	RF17300F10T-BW1Q
H310407	RF17300F10T-CW1N
H310463	RF17300F10T-CW1Q
H310296	RF17300F12T-BW1N
H310352	RF17300F12T-BW1Q
H310408	RF17300F12T-CW1N
H310464	RF17300F12T-CW1Q

◆ RF26250F

Product code	Model no.
H31	RF26250F6T-BW1N
H31	RF26250F6T-BW1Q
H31	RF26250F6T-CW1N
H31	RF26250F6T-CW1Q
H31	RF26250F8T-BW1N
H31	RF26250F8T-BW1Q
H31	RF26250F8T-CW1N
H31	RF26250F8T-CW1Q
H31	RF26250F10T-BW1N
H31	RF26250F10T-BW1Q
H31	RF26250F10T-CW1N
H31	RF26250F10T-CW1Q
H31	RF26250F12T-BW1N
H31	RF26250F12T-BW1Q
H31	RF26250F12T-CW1N
H31	RF26250F12T-CW1Q

◆ RF26300F

Product code	Model no.
H31	RF26300F6T-BW1N
H31	RF26300F6T-BW1Q
H31	RF26300F6T-CW1N
H31	RF26300F6T-CW1Q
H31	RF26300F8T-BW1N
H31	RF26300F8T-BW1Q
H31	RF26300F8T-CW1N
H31	RF26300F8T-CW1Q
H31	RF26300F10T-BW1N
H31	RF26300F10T-BW1Q
H31	RF26300F10T-CW1N
H31	RF26300F10T-CW1Q
H31	RF26300F12T-BW1N
H31	RF26300F12T-BW1Q
H31	RF26300F12T-CW1N
H31	RF26300F12T-CW1Q

◆ RF36300F

Product code	Model no.
H31	RF36300F6T-BW1N
H31	RF36300F6T-BW1Q
H31	RF36300F6T-CW1N
H31	RF36300F6T-CW1Q
H31	RF36300F8T-BW1N
H31	RF36300F8T-BW1Q
H31	RF36300F8T-CW1N
H31	RF36300F8T-CW1Q
H31	RF36300F10T-BW1N
H31	RF36300F10T-BW1Q
H31	RF36300F10T-CW1N
H31	RF36300F10T-CW1Q
H31	RF36300F12T-BW1N
H31	RF36300F12T-BW1Q
H31	RF36300F12T-CW1N
H31	RF36300F12T-CW1Q

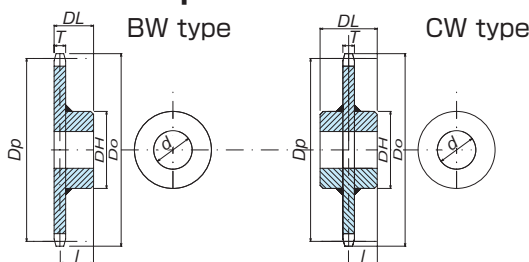
◆ RF6205F (Inch)

Product code	Model no.
H310821	RF6205F6T-BW1N
H310833	RF6205F6T-BW1Q
H310845	RF6205F6T-CW1N
H310857	RF6205F6T-CW1Q
H310822	RF6205F8T-BW1N
H310834	RF6205F8T-BW1Q
H310846	RF6205F8T-CW1N
H310858	RF6205F8T-CW1Q
H310823	RF6205F10T-BW1N
H310835	RF6205F10T-BW1Q
H310847	RF6205F10T-CW1N
H310859	RF6205F10T-CW1Q
H310824	RF6205F12T-BW1N
H310836	RF6205F12T-BW1Q
H310848	RF6205F12T-CW1N
H310860	RF6205F12T-CW1Q

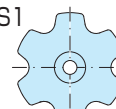
BW and CW type S-roller Sprockets

RF03075 S 6T – BW N

Chain no.	No. of teeth	Hub type
Roller type		BW·CW
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)

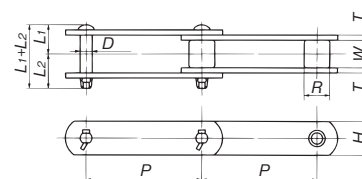


Measurement system	Chain no. (Chain pitch)	No. of teeth N	Basic sprocket size and shape				Common basic specification					BW type		CW type		Time for delivery	
			Pitch circle dia. Dp	Outer dia. Do	Tooth width T	Tooth shape	Bore dia. d		Hub dia.	Overall length	Approx. mass	Hub NO.	Center distance	Hub NO.	Center distance	Common to BW and CW	
							Pilot bore	Max.	DH	DL	kg		I		I	N (Non-hardened)	Q (Hardened teeth)
Metric pitch	RF03075S (75)	6	150.0	158	11.9 ⁰ _{-0.8}	S1	18	50	73	57	3.0	SB1	51.0	SC1	28.5	3D	1W
		8	196.0	206		S1	18	55	83	62	4.8	SB2	56.0	SC2	31.0		
		10	242.7	252		S1	18	60	93	67	7.1	SB3	61.0	SC3	33.5		
		12	289.8	299		S1	18	60	93	67	9.0	SB3	61.0	SC3	33.5		
	RF03100S (100)	6	200.0	210	11.9 ⁰ _{-0.8}	S2	18	55	83	62	4.9	SB2	56.0	SC2	31.0		
		8	261.3	269		S1	18	60	93	67	7.8	SB3	61.0	SC3	33.5		
		10	323.6	333		S1	18	65	98	72	11.1	SB4	66.0	SC4	36.0		
		12	386.4	396		S1	18	65	98	72	14.4	SB4	66.0	SC4	36.0		
	RF05075S (75)	8	196.0	209	18 ⁰ _{-0.8}	S1	28	75	107	86	8.6	SB5	77.0	SC5	43.0		
		10	242.7	256		S1	28	75	107	86	10.9	SB5	77.0	SC5	43.0		
		12	289.8	303		S1	33	80	117	94	15.1	SB6	85.0	SC6	47.0		
		12	289.8	303		S1	33	80	117	94	15.1	SB6	85.0	SC6	47.0		
	RF05100S (100)	6	200.0	212	18 ⁰ _{-0.8}	S2	28	75	107	86	8.8	SB5	77.0	SC5	43.0		
		8	261.3	273		S1	28	75	107	86	12.0	SB5	77.0	SC5	43.0		
		10	323.6	337		S1	33	80	117	94	17.4	SB6	85.0	SC6	47.0		
		12	386.4	400		S1	33	85	127	104	24.4	SB7	95.0	SC7	52.0		
	RF05125S (125)	6	250.0	262	18 ⁰ _{-0.8}	S2	28	75	107	86	11.3	SB5	77.0	SC5	43.0	2W	3W
		8	326.6	340		S2	33	80	117	94	17.6	SB6	85.0	SC6	47.0		
		10	404.5	417		S1	33	85	127	104	26.0	SB7	95.0	SC7	52.0		
		12	483.0	496		S1	33	95	137	116	36.4	SB8	107.0	SC8	58.0		
	RF05150S (150)	6	300.0	310	18 ⁰ _{-0.8}	S2	33	80	117	94	15.8	SB6	85.0	SC6	47.0	3D	1W
		8	392.0	405		S2	33	85	127	104	24.9	SB7	95.0	SC7	52.0		
		10	485.4	499		S2	33	95	137	116	36.7	SB8	107.0	SC8	58.0		
		12	579.6	592		S1	33	95	137	116	47.8	SB8	107.0	SC8	58.0		
	RF08125S (125)	6	250.0	263	22 ⁰ _{-1.0}	S2	28	75	107	90	12.8	SB5	79.0	SC5	45.0	2W	3W
		8	326.6	340		S1	33	80	117	98	20.2	SB6	87.0	SC6	49.0		
		10	404.5	418		S1	33	85	127	108	30.0	SB7	97.0	SC7	54.0		
		12	483.0	496		S1	33	95	137	120	42.2	SB8	109.0	SC8	60.0		
	RF08150S (150)	6	300.0	313	22 ⁰ _{-1.0}	S2	33	80	117	98	18.0	SB6	87.0	SC6	49.0	3D	1W
		8	392.0	403		S1	33	85	127	108	28.7	SB7	97.0	SC7	54.0		
		10	485.4	499		S1	33	95	137	120	42.5	SB8	109.0	SC8	60.0		
		12	579.6	593		S1	33	95	137	120	56.1	SB8	109.0	SC8	60.0		
	RF10100S (100)	6	200.0	217	22 ⁰ _{-1.0}	S2	28	75	107	90	9.8	SB5	79.0	SC5	45.0	3D	1W
		8	261.3	279		S1	33	85	127	108	17.1	SB7	97.0	SC7	54.0		
		10	323.6	341		S1	33	95	137	120	24.7	SB8	109.0	SC8	60.0		
		12	386.4	404		S1	38	100	147	123	32.6	SB9	112.0	SC9	61.5		
	RF10125S (125)	6	250.0	267	22 ⁰ _{-1.0}	S2	33	85	127	108	16.3	SB7	97.0	SC7	54.0	2W	3W
		8	326.6	343		S1	33	95	137	120	25.0	SB8	109.0	SC8	60.0		
		10	404.5	422		S1	38	100	147	123	34.5	SB9	112.0	SC9	61.5		
		12	483.0	500		S1	38	110	157	133	47.3	SB10	122.0	SC10	66.5		
	RF10150S (150)	6	300.0	316	22 ⁰ _{-1.0}	S2	33	95	137	120	22.7	SB8	109.0	SC8	60.0	3D	1W
		8	392.0	409		S2	38	100	147	123	33.2	SB9	112.0	SC9	61.5		
		10	485.4	503		S1	38	110	157	133	47.6	SB10	122.0	SC10	66.5		
		12	579.6	597		S1	38	115	167	144	65.2	SB11	133.0	SC11	72.0		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller	Inner link	Plate		Pin			
		Roller dia. R	Inner width W	Width H	Thickness T	Dia. D	L ₁ + L ₂	L ₁	L ₂
Metric	RF03075S	15.9	16.1	22	3.2	8	38	18	20
	RF03100S								
	RF05075S	22.2	22	32	4.5	11.3	53.5	25	28.5
	RF05100S								
	RF05125S								
	RF05150S								
	RF08125S	22.2	27	28.6	6.3	11.3	65.9	31	34.5
	RF08150S								
	RF10100S	29	30	38.1	6.3	14.5	69	33	36
	RF10125S								
	RF10150S								



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF03075S

Product code	Model no.
H310465	RF03075S6T-BWN
H310528	RF03075S6T-BWQ
H310591	RF03075S6T-CWN
H310654	RF03075S6T-CWQ
H310466	RF03075S8T-BWN
H310529	RF03075S8T-BWQ
H310592	RF03075S8T-CWN
H310655	RF03075S8T-CWQ
H310467	RF03075S10T-BWN
H310530	RF03075S10T-BWQ
H310593	RF03075S10T-CWN
H310656	RF03075S10T-CWQ
H310468	RF03075S12T-BWN
H310531	RF03075S12T-BWQ
H310594	RF03075S12T-CWN
H310657	RF03075S12T-CWQ

◆ RF03100S

Product code	Model no.
H310469	RF03100S6T-BWN
H310532	RF03100S6T-BWQ
H310595	RF03100S6T-CWN
H310658	RF03100S6T-CWQ
H310470	RF03100S8T-BWN
H310533	RF03100S8T-BWQ
H310596	RF03100S8T-CWN
H310659	RF03100S8T-CWQ
H310471	RF03100S10T-BWN
H310534	RF03100S10T-BWQ
H310597	RF03100S10T-CWN
H310660	RF03100S10T-CWQ
H310472	RF03100S12T-BWN
H310535	RF03100S12T-BWQ
H310598	RF03100S12T-CWN
H310661	RF03100S12T-CWQ

◆ RF05075S

Product code	Model no.
H310473	RF05075S8T-BWN
H310536	RF05075S8T-BWQ
H310599	RF05075S8T-CWN
H310662	RF05075S8T-CWQ
H310474	RF05075S10T-BWN
H310537	RF05075S10T-BWQ
H310600	RF05075S10T-CWN
H310663	RF05075S10T-CWQ
H310475	RF05075S12T-BWN
H310538	RF05075S12T-BWQ
H310601	RF05075S12T-CWN
H310664	RF05075S12T-CWQ

◆ RF05100S

Product code	Model no.
H310476	RF05100S6T-BWN
H310539	RF05100S6T-BWQ
H310602	RF05100S6T-CWN
H310665	RF05100S6T-CWQ
H310477	RF05100S8T-BWN
H310540	RF05100S8T-BWQ
H310603	RF05100S8T-CWN
H310666	RF05100S8T-CWQ
H310478	RF05100S10T-BWN
H310541	RF05100S10T-BWQ
H310604	RF05100S10T-CWN
H310667	RF05100S10T-CWQ
H310479	RF05100S12T-BWN
H310542	RF05100S12T-BWQ
H310605	RF05100S12T-CWN
H310668	RF05100S12T-CWQ

◆ RF05125S

Product code	Model no.
H310480	RF05125S6T-BWN
H310543	RF05125S6T-BWQ
H310606	RF05125S6T-CWN
H310669	RF05125S6T-CWQ
H310481	RF05125S8T-BWN
H310544	RF05125S8T-BWQ
H310607	RF05125S8T-CWN
H310670	RF05125S8T-CWQ
H310482	RF05125S10T-BWN
H310545	RF05125S10T-BWQ
H310608	RF05125S10T-CWN
H310671	RF05125S10T-CWQ
H310483	RF05125S12T-BWN
H310546	RF05125S12T-BWQ
H310609	RF05125S12T-CWN
H310672	RF05125S12T-CWQ

◆ RF05150S

Product code	Model no.
H310484	RF05150S6T-BWN
H310547	RF05150S6T-BWQ
H310610	RF05150S6T-CWN
H310673	RF05150S6T-CWQ
H310485	RF05150S8T-BWN
H310548	RF05150S8T-BWQ
H310611	RF05150S8T-CWN
H310674	RF05150S8T-CWQ
H310486	RF05150S10T-BWN
H310549	RF05150S10T-BWQ
H310612	RF05150S10T-CWN
H310675	RF05150S10T-CWQ
H310487	RF05150S12T-BWN
H310550	RF05150S12T-BWQ
H310613	RF05150S12T-CWN
H310676	RF05150S12T-CWQ

◆ RF08125S

Product code	Model no.
H310488	RF08125S6T-BWN
H310551	RF08125S6T-BWQ
H310614	RF08125S6T-CWN
H310677	RF08125S6T-CWQ
H310489	RF08125S8T-BWN
H310552	RF08125S8T-BWQ
H310615	RF08125S8T-CWN
H310678	RF08125S8T-CWQ
H310490	RF08125S10T-BWN
H310553	RF08125S10T-BWQ
H310616	RF08125S10T-CWN
H310679	RF08125S10T-CWQ
H310491	RF08125S12T-BWN
H310554	RF08125S12T-BWQ
H310617	RF08125S12T-CWN
H310680	RF08125S12T-CWQ

◆ RF08150S

Product code	Model no.
H310492	RF08150S6T-BWN
H310555	RF08150S6T-BWQ
H310618	RF08150S6T-CWN
H310681	RF08150S6T-CWQ
H310493	RF08150S8T-BWN
H310556	RF08150S8T-BWQ
H310619	RF08150S8T-CWN
H310682	RF08150S8T-CWQ
H310494	RF08150S10T-BWN
H310557	RF08150S10T-BWQ
H310620	RF08150S10T-CWN
H310683	RF08150S10T-CWQ
H310495	RF08150S12T-BWN
H310558	RF08150S12T-BWQ
H310621	RF08150S12T-CWN
H310684	RF08150S12T-CWQ

◆ RF10100S

Product code	Model no.
H310496	RF10100S6T-BWN
H310559	RF10100S6T-BWQ
H310622	RF10100S6T-CWN
H310685	RF10100S6T-CWQ
H310497	RF10100S8T-BWN
H310560	RF10100S8T-BWQ
H310623	RF10100S8T-CWN
H310686	RF10100S8T-CWQ
H310498	RF10100S10T-BWN
H310561	RF10100S10T-BWQ
H310624	RF10100S10T-CWN
H310687	RF10100S10T-CWQ
H310499	RF10100S12T-BWN
H310562	RF10100S12T-BWQ
H310625	RF10100S12T-CWN
H310688	RF10100S12T-CWQ

◆ RF10100S

Product code	Model no.
H310496	RF10100S6T-BWN
H310559	RF10100S6T-BWQ
H310622	RF10100S6T-CWN
H310685	RF10100S6T-CWQ
H310497	RF10100S8T-BWN
H310560	RF10100S8T-BWQ
H310623	RF10100S8T-CWN
H310686	RF10100S8T-CWQ
H310498	RF10100S10T-BWN
H310561	RF10100S10T-BWQ
H310624	RF10100S10T-CWN
H310687	RF10100S10T-CWQ
H310499	RF10100S12T-BWN
H310562	RF10100S12T-BWQ
H310625	RF10100S12T-CWN
H310688	RF10100S12T-CWQ

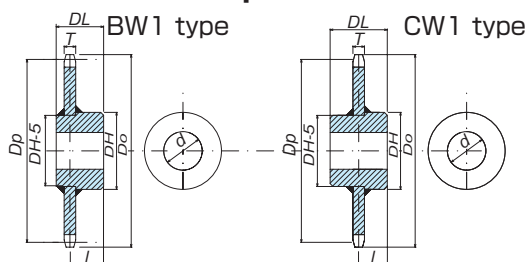
◆ RF10100S

Product code	Model no.
H310496	RF10100S6T-BWN
H310559	RF10100S6T-BWQ
H310622	RF10100S6T-CWN
H310685	RF10100S6T-CWQ
H310497	RF10100S8T-BWN
H310560	RF10100S8T-BWQ
H310623	RF10100S8T-CWN
H310686	RF10100S8T-CWQ
H310498	RF10100S10T-BWN
H310561	RF10100S10T-BWQ
H310624	RF10100S10T-CWN
H310687	RF10100S10T-CWQ
H310499	RF10100S12T-BWN
H310562	RF10100S12T-BWQ
H310625	RF10100S12T-CWN
H310688	RF10100S12T-CWQ

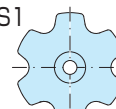
BW1 and CW1 type S-roller Sprockets

RF12200 S 6T – BW1 N

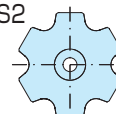
Chain no.	No. of teeth	Hub type
Roller type		BW1·CW1
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)

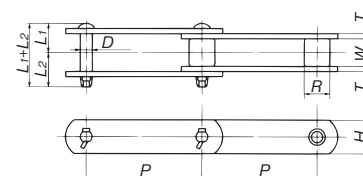


Measurement system	Chain no. (Chain pitch)	No. of teeth <i>N</i>	Basic sprocket size and shape				Common basic specification					BW1 type		CW1 type		Time for delivery	
			Pitch circle dia. <i>Dp</i>	Outer dia. <i>Do</i>	Tooth width <i>T</i>	Tooth shape	Bore dia. <i>d</i>		Hub dia. <i>DH</i>	Overall length <i>DL</i>	Approx. mass kg	Hub NO.	Center distance <i>I</i>	Hub NO.	Center distance <i>I</i>	Common to BW1 and CW1	
							Pilot bore	Max.								N (Non-hardened)	Q (Hardened teeth)
Metric pitch	RF12200S (200)	6	400.0	421	28 ⁰ _{-1.0}	S2	55	110	157	135	41.3	TB2	110.0	TC2	67.5	1W	10D
		8	522.6	544		S1	60	120	177	150	67.4	TB3	125.0	TC3	75.0		
		10	647.2	668		S1	65	130	187	160	96.6	TB4	135.0	TC4	80.0		
		12	772.7	794		S1	75	145	207	180	136.9	TB5	155.0	TC5	90.0	2W	3W
	RF12250S (250)	6	500.0	521	28 ⁰ _{-1.0}	S2	60	120	177	150	63.4	TB3	125.0	TC3	75.0	1W	10D
		8	653.3	674		S2	65	130	187	160	97.9	TB4	135.0	TC4	80.0		
		10	809.0	830		S1	75	145	207	180	146.8	TB5	155.0	TC5	90.0		
		12	965.9	987		S1	80	160	227	200	207.7	TB6	175.0	TC6	100.0	2W	3W
	RF17200S (200)	6	400.0	424	40 ⁰ _{-1.2}	S2	60	120	177	150	57.3	TB3	118.0	TC3	75.0	2W	3W
		8	522.6	547		S1	75	145	207	180	98.1	TB5	148.0	TC5	90.0		
		10	647.2	671		S1	75	145	207	180	134.0	TB5	148.0	TC5	90.0		
		12	772.7	797		S1	80	160	227	200	190.1	TB6	168.0	TC6	100.0		
	RF17250S (250)	6	500.0	524	40 ⁰ _{-1.2}	S2	65	130	187	160	83.3	TB4	128.0	TC4	80.0		
		8	653.3	677		S1	75	145	207	180	135.9	TB5	148.0	TC5	90.0		
		10	809.0	833		S1	80	160	227	200	204.2	TB6	168.0	TC6	100.0		
		12	965.9	990		S1	80	160	227	220	278.5	TB7	188.0	TC7	110.0		
	RF17300S (300)	6	600.0	624	40 ⁰ _{-1.2}	S2	75	145	207	180	119.5	TB5	148.0	TC5	90.0		
		8	783.9	808		S2	80	160	227	200	194.4	TB6	168.0	TC6	100.0		
		10	970.8	995		S1	80	160	227	220	280.8	TB7	188.0	TC7	110.0		
		12	1159.1	1183		S1	85	175	247	240	395.7	TB9	208.0	TC9	120.0		
	RF26200S (200)	6	400.0	427	45 ±1.3	S1	75	145	207	180	73.8	TB5	144.0	TC5	90.0		
		8	522.6	547		S1	75	145	207	180	105.1	TB5	144.0	TC5	90.0		
		10	647.2	674		S1	80	160	227	200	157.5	TB6	164.0	TC6	100.0		
		12	772.7	800		S1	85	175	247	240	228.2	TB9	204.0	TC9	120.0		
	RF26250S (250)	6	500.0	527	45 ±1.3	S1	75	145	207	180	98.7	TB5	144.0	TC5	90.0		
		8	653.3	680		S1	80	160	227	200	159.7	TB6	164.0	TC6	100.0		
		10	809.0	836		S1	85	175	247	240	244.1	TB9	204.0	TC9	120.0		
		12	965.9	993		S1	85	175	247	240	321.4	TB9	204.0	TC9	120.0		
	RF26300S (300)	6	600.0	627	45 ±1.3	S2	80	160	227	220	146.7	TB7	184.0	TC7	110.0		
		8	783.9	811		S1	85	175	247	240	233.0	TB9	204.0	TC9	120.0		
		10	970.8	998		S1	85	175	247	240	324.0	TB9	204.0	TC9	120.0		
		12	1159.1	1186		S1	95	190	267	270	456.4	TB11	234.0	TC11	135.0		
	RF36250S (250)	6	500.0	530	55 ±1.3	S2	80	160	227	200	122.9	TB6	158.0	TC6	100.0		
		8	653.3	684		S1	85	175	247	240	203.5	TB9	198.0	TC9	120.0		
		10	809.0	839		S1	95	190	267	240	289.8	TB10	198.0	TC10	120.0		
		12	965.9	996		S1	95	190	267	270	395.7	TB11	228.0	TC11	135.0		
	RF36300S (300)	6	600.0	631	55 ±1.3	S1	85	175	247	220	174.2	TB8	178.0	TC8	110.0		
		8	783.9	814		S1	95	190	267	240	276.2	TB10	198.0	TC10	120.0		
		10	970.8	1001		S1	95	190	267	270	398.9	TB11	228.0	TC11	135.0		
		12	1159.1	1190		S1	100	210	297	260	550.8	TB12	218.0	TC12	130.0		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller	Inner link	Plate		Pin			
		Roller dia. <i>R</i>	Inner width <i>W</i>	Width <i>H</i>	Thickness <i>T</i>	Dia. <i>D</i>	$L_1 + L_2$	<i>L_1</i>	<i>L_2</i>
Metric	RF12200S	34.9	37.1	44.5	7.9	15.9	83.5	40.5	43
	RF12250S								
	RF17200S	40.1	51.4	50.8	9.5	19.1	109.5	51.5	58
	RF17250S								
	RF17300S	44.5	57.2	63.5	9.5	22.2	116.5	55.5	61
	RF26200S								
	RF26250S								
	RF26300S								
	RF36250S	50.8	66.7	76.2	12.7	25.4	146	68	78
	RF36300S								



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF12200S

Product code	Model no.
H310508	RF12200S6T-BW1N
H310571	RF12200S6T-BW1Q
H310634	RF12200S6T-CW1N
H310697	RF12200S6T-CW1Q
H310509	RF12200S8T-BW1N
H310572	RF12200S8T-BW1Q
H310635	RF12200S8T-CW1N
H310698	RF12200S8T-CW1Q
H310510	RF12200S10T-BW1N
H310573	RF12200S10T-BW1Q
H310636	RF12200S10T-CW1N
H310699	RF12200S10T-CW1Q
H310511	RF12200S12T-BW1N
H310574	RF12200S12T-BW1Q
H310637	RF12200S12T-CW1N
H310700	RF12200S12T-CW1Q

◆ RF12250S

Product code	Model no.
H310512	RF12250S6T-BW1N
H310575	RF12250S6T-BW1Q
H310638	RF12250S6T-CW1N
H310701	RF12250S6T-CW1Q
H310513	RF12250S8T-BW1N
H310576	RF12250S8T-BW1Q
H310639	RF12250S8T-CW1N
H310702	RF12250S8T-CW1Q
H310514	RF12250S10T-BW1N
H310577	RF12250S10T-BW1Q
H310640	RF12250S10T-CW1N
H310703	RF12250S10T-CW1Q
H310515	RF12250S12T-BW1N
H310578	RF12250S12T-BW1Q
H310641	RF12250S12T-CW1N
H310704	RF12250S12T-CW1Q

◆ RF17200S

Product code	Model no.
H310516	RF17200S6T-BW1N
H310579	RF17200S6T-BW1Q
H310642	RF17200S6T-CW1N
H310705	RF17200S6T-CW1Q
H310517	RF17200S8T-BW1N
H310580	RF17200S8T-BW1Q
H310643	RF17200S8T-CW1N
H310706	RF17200S8T-CW1Q
H310518	RF17200S10T-BW1N
H310581	RF17200S10T-BW1Q
H310644	RF17200S10T-CW1N
H310707	RF17200S10T-CW1Q
H310519	RF17200S12T-BW1N
H310582	RF17200S12T-BW1Q
H310645	RF17200S12T-CW1N
H310708	RF17200S12T-CW1Q

◆ RF17250S

Product code	Model no.
H310520	RF17250S6T-BW1N
H310583	RF17250S6T-BW1Q
H310646	RF17250S6T-CW1N
H310709	RF17250S6T-CW1Q
H310521	RF17250S8T-BW1N
H310584	RF17250S8T-BW1Q
H310647	RF17250S8T-CW1N
H310710	RF17250S8T-CW1Q
H310522	RF17250S10T-BW1N
H310585	RF17250S10T-BW1Q
H310648	RF17250S10T-CW1N
H310711	RF17250S10T-CW1Q
H310523	RF17250S12T-BW1N
H310586	RF17250S12T-BW1Q
H310649	RF17250S12T-CW1N
H310712	RF17250S12T-CW1Q

◆ RF17300S

Product code	Model no.
H310524	RF17300S6T-BW1N
H310587	RF17300S6T-BW1Q
H310650	RF17300S6T-CW1N
H310713	RF17300S6T-CW1Q
H310525	RF17300S8T-BW1N
H310588	RF17300S8T-BW1Q
H310651	RF17300S8T-CW1N
H310714	RF17300S8T-CW1Q
H310526	RF17300S10T-BW1N
H310589	RF17300S10T-BW1Q
H310652	RF17300S10T-CW1N
H310715	RF17300S10T-CW1Q
H310527	RF17300S12T-BW1N
H310590	RF17300S12T-BW1Q
H310653	RF17300S12T-CW1N
H310716	RF17300S12T-CW1Q

◆ RF26200S

Product code	Model no.
H31	RF26200S6T-BW1N
H31	RF26200S6T-BW1Q
H31	RF26200S6T-CW1N
H31	RF26200S6T-CW1Q
H31	RF26200S8T-BW1N
H31	RF26200S8T-BW1Q
H31	RF26200S8T-CW1N
H31	RF26200S8T-CW1Q
H31	RF26200S10T-BW1N
H31	RF26200S10T-BW1Q
H31	RF26200S10T-CW1N
H31	RF26200S10T-CW1Q
H31	RF26200S12T-BW1N
H31	RF26200S12T-BW1Q
H31	RF26200S12T-CW1N
H31	RF26200S12T-CW1Q

◆ RF26250S

Product code	Model no.
H31	RF26250S6T-BW1N
H31	RF26250S6T-BW1Q
H31	RF26250S6T-CW1N
H31	RF26250S6T-CW1Q
H31	RF26250S8T-BW1N
H31	RF26250S8T-BW1Q
H31	RF26250S8T-CW1N
H31	RF26250S8T-CW1Q
H31	RF26250S10T-BW1N
H31	RF26250S10T-BW1Q
H31	RF26250S10T-CW1N
H31	RF26250S10T-CW1Q
H31	RF26250S12T-BW1N
H31	RF26250S12T-BW1Q
H31	RF26250S12T-CW1N
H31	RF26250S12T-CW1Q

◆ RF26300S

Product code	Model no.
H31	RF26300S6T-BW1N
H31	RF26300S6T-BW1Q
H31	RF26300S6T-CW1N
H31	RF26300S6T-CW1Q
H31	RF26300S8T-BW1N
H31	RF26300S8T-BW1Q
H31	RF26300S8T-CW1N
H31	RF26300S8T-CW1Q
H31	RF26300S10T-BW1N
H31	RF26300S10T-BW1Q
H31	RF26300S10T-CW1N
H31	RF26300S10T-CW1Q
H31	RF26300S12T-BW1N
H31	RF26300S12T-BW1Q
H31	RF26300S12T-CW1N
H31	RF26300S12T-CW1Q

◆ RF36250S

Product code	Model no.
H31	RF36250S6T-BW1N
H31	RF36250S6T-BW1Q
H31	RF36250S6T-CW1N
H31	RF36250S6T-CW1Q
H31	RF36250S8T-BW1N
H31	RF36250S8T-BW1Q
H31	RF36250S8T-CW1N
H31	RF36250S8T-CW1Q
H31	RF36250S10T-BW1N
H31	RF36250S10T-BW1Q
H31	RF36250S10T-CW1N
H31	RF36250S10T-CW1Q
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H31	RF36250S12T-CW1N
H31	RF36250S12T-CW1Q

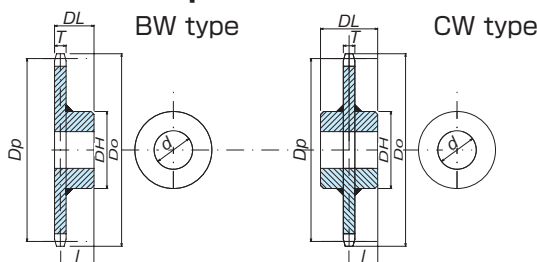
◆ RF36300S

Product code	Model no.
H31	RF36300S6T-BW1N
H31	RF36300S6T-BW1Q
H31	RF36300S6T-CW1N
H31	RF36300S6T-CW1Q
H31	RF36300S8T-BW1N
H31	RF36300S8T-BW1Q
H31	RF36300S8T-CW1N
H31	RF36300S8T-CW1Q
H31	RF36300S10T-BW1N
H31	RF36300S10T-BW1Q
H31	RF36300S10T-CW1N
H31	RF36300S10T-CW1Q
H31	RF36300S12T-BW1N
H31	RF36300S12T-BW1Q
H31	RF36300S12T-CW1N
H31	RF36300S12T-CW1Q

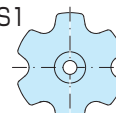
BW and CW type S-roller Sprockets

RF430 S 6T – BW N

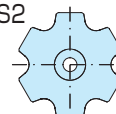
Chain no.	No. of teeth	Hub type
Roller type		BW·CW
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)



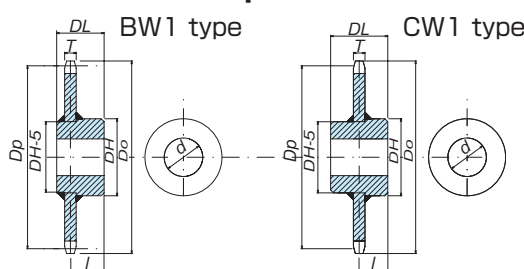
Measurement system	Chain no. (Chain pitch)	No. of teeth <i>N</i>	Basic sprocket size and shape				Common basic specification					BW type		CW type		Time for delivery	
			Pitch circle dia. <i>Dp</i>	Outer dia. <i>Do</i>	Tooth width <i>T</i>	Tooth shape	Bore dia. <i>d</i>		Hub dia.	Overall length	Approx. mass	Hub NO.	Center distance <i>l</i>	Hub NO.	Center distance <i>l</i>	Common to BW and CW	
							Pilot bore	Max.	<i>DH</i>	<i>DL</i>	kg					N [Non-hardened]	Q [Hardened teeth]
Inch pitch	RF430S (101.6)	6	203.2	215	18 ⁰ _{-0.8}	S1	18	60	93	73	7.4	SB3	64.0	SC3	36.5	2W	3W
		8	265.5	277		S1	18	65	98	78	11.2	SB4	69.0	SC4	39.0		
		10	328.8	341		S1	28	75	107	86	16.4	SB5	77.0	SC5	43.0		
		12	392.6	405		S1	28	75	107	86	21.5	SB5	77.0	SC5	43.0		
	RF204S (66.27)	8	173.2	187	22 ⁰ _{-1.0}	S1	18	65	98	82	7.5	SB4	71.0	SC4	41.0	2W	3W
		10	214.5	228		S1	28	75	107	90	10.6	SB5	79.0	SC5	45.0		
		12	256.0	269		S1	28	75	107	90	13.3	SB5	79.0	SC5	45.0		
		12	256.0	269		S1	28	75	107	90	10.0	SB5	79.0	SC5	45.0		
	RF450S (101.6)	6	203.2	217	22 ⁰ _{-1.0}	S1	28	75	107	90	10.0	SB5	79.0	SC5	45.0	3D	1W
		8	265.5	279		S1	28	75	107	90	13.9	SB5	79.0	SC5	45.0		
		10	328.8	342		S1	33	80	117	98	20.4	SB6	87.0	SC6	49.0		
		12	392.6	406		S1	33	85	127	108	28.7	SB7	97.0	SC7	54.0		
	RF650S (152.4)	6	304.8	320	22 ⁰ _{-1.0}	S1	33	80	117	98	18.3	SB6	87.0	SC6	49.0	2W	3W
		8	398.2	414		S1	33	85	127	108	29.3	SB7	97.0	SC7	51.5		
		10	493.2	509		S1	33	95	137	120	43.5	SB8	109.0	SC8	59.5		
		12	588.8	604		S1	33	95	137	120	57.5	SB8	109.0	SC8	59.5		
	RF214S (101.6)	6	203.2	222	24 ⁰ _{-1.0}	S1	28	75	107	92	10.5	SB5	80.0	SC5	46.0	2W	3W
		8	265.5	285		S1	33	95	137	122	20.9	SB8	110.0	SC8	61.0		
		10	328.8	348		S1	33	95	137	122	26.5	SB8	110.0	SC8	61.0		
		12	392.6	412		S1	38	100	147	125	35.1	SB9	113.0	SC9	62.5		
	RF205S (78.11)	8	204.1	223	28 ⁰ _{-1.0}	S1	33	80	117	104	12.9	SB6	90.0	SC6	52.0	2W	3W
		10	252.8	272		S1	33	85	127	114	18.8	SB7	100.0	SC7	54.5		
		12	301.8	321		S1	33	95	137	126	26.2	SB8	112.0	SC8	62.5		

The models in the shaded part are products with pilot bore and non-hardened teeth that can be produced in three days.

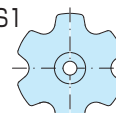
BW1 and CW1 type S-roller Sprockets

RF6205 S 6T – BW1 N

Chain no.	No. of teeth	Hub type
Roller type		BW1·CW1
Hardened teeth		
Hardened teeth : Q		
Non-hardened : N		



Tooth profile: S1
(Arc-shaped teeth)



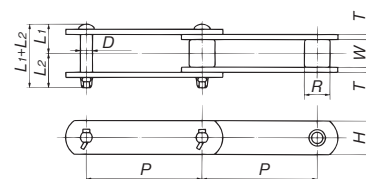
Tooth profile: S2
(Flat teeth)



Measurement system	Chain no. (Chain pitch)	No. of teeth <i>N</i>	Basic sprocket size and shape				Common basic specification					BW1 type		CW1 type		Time for delivery	
			Pitch circle dia. <i>Dp</i>	Outer dia. <i>Do</i>	Tooth width <i>T</i>	Tooth shape	Bore dia. <i>d</i>		Hub dia.	Overall length	Approx. mass	Hub NO.	Center distance <i>l</i>	Hub NO.	Center distance <i>l</i>	Common to BW1 and CW1	
							Pilot bore	Max.	<i>DH</i>	<i>DL</i>	kg					N [Soft tooth point]	Q [Hardened tooth point]
Inch pitch	RF6205S (152.4)	6	304.8	325	28 ⁰ _{-1.0}	S2	50	100	147	125	27.0	TB1	100.0	TC1	62.5	2W	3W
		8	398.2	419		S1	55	110	157	135	41.1	TB2	110.0	TC2	67.5		
		10	493.2	514		S1	60	120	177	150	62.2	TB3	125.0	TC3	75.0		
		12	588.8	610		S1	60	120	177	150	80.0	TB3	125.0	TC3	75.0		
	RF212S (152.4)	6	304.8	329	28 ⁰ _{-1.0}	S1	55	110	157	135	29.8	TB2	110.0	TC2	67.5		
		8	398.2	422		S1	60	120	177	150	47.6	TB3	125.0	TC3	75.0		
		10	493.2	517		S1	65	130	187	160	66.2	TB4	135.0	TC4	80.0		
		12	588.8	613		S1	75	145	207	180	93.7	TB5	155.0	TC5	90.0		

Applicable RF Conveyor Chain Numbers and Dimensions

Measurement system	Chain no.	Roller	Inner link	Plate		Pin			
		Roller dia. <i>R</i>	Inner width <i>W</i>	Width <i>H</i>	Thickness <i>T</i>	Dia. <i>D</i>	$L_1 + L_2$	L_1	L_2
Inch	RF430S	20.1	22.6	25.4	4.8	9.7	55	25.5	29.5
	RF204S	22.2	27	28.6	6.3	11.3	65.5	31	34.5
	RF450S	22.2	27	28.6	6.3	11.3	65.5	31	34.5
	RF650S	25.8	30.2	38.1	6.3	11.3	69	32.5	36.5
	RF214S	31.8	31.6	38.1	7.9	15.9	77.5	37.5	40
	RF205S	31.8	37.1	38.1	7.9	15.9	83.5	40.5	43
Inch	RF6205S	34.9	37.1	44.5	7.9	15.9	83.5	40.5	43
	RF212S	40.1	37.1	50.8	9.5	19.1	95.5	44.5	51



Some models includes products with hanging holes on the plate.
For details, refer to page 155.

◆ RF430S (Inch)

Product code	Model no.
H310861	RF430S6T-BWN
H310891	RF430S6T-BWQ
H310921	RF430S6T-CWN
H310951	RF430S6T-CWQ
H310862	RF430S8T-BWN
H310892	RF430S8T-BWQ
H310922	RF430S8T-CWN
H310952	RF430S8T-CWQ
H310863	RF430S10T-BWN
H310893	RF430S10T-BWQ
H310923	RF430S10T-CWN
H310953	RF430S10T-CWQ
H310864	RF430S12T-BWN
H310894	RF430S12T-BWQ
H310924	RF430S12T-CWN
H310954	RF430S12T-CWQ

◆ RF204S (Inch)

Product code	Model no.
H310865	RF204S8T-BWN
H310895	RF204S8T-BWQ
H310925	RF204S8T-CWN
H310955	RF204S8T-CWQ
H310866	RF204S10T-BWN
H310896	RF204S10T-BWQ
H310926	RF204S10T-CWN
H310956	RF204S10T-CWQ
H310867	RF204S12T-BWN
H310897	RF204S12T-BWQ
H310927	RF204S12T-CWN
H310957	RF204S12T-CWQ

◆ RF450S (Inch)

Product code	Model no.
H310868	RF450S6T-BWN
H310898	RF450S6T-BWQ
H310928	RF450S6T-CWN
H310958	RF450S6T-CWQ
H310869	RF450S8T-BWN
H310899	RF450S8T-BWQ
H310929	RF450S8T-CWN
H310959	RF450S8T-CWQ
H310870	RF450S10T-BWN
H310900	RF450S10T-BWQ
H310930	RF450S10T-CWN
H310960	RF450S10T-CWQ
H310871	RF450S12T-BWN
H310901	RF450S12T-BWQ
H310931	RF450S12T-CWN
H310961	RF450S12T-CWQ

◆ RF650S (Inch)

Product code	Model no.
H310872	RF650S6T-BWN
H310902	RF650S6T-BWQ
H310932	RF650S6T-CWN
H310962	RF650S6T-CWQ
H310873	RF650S8T-BWN
H310903	RF650S8T-BWQ
H310933	RF650S8T-CWN
H310963	RF650S8T-CWQ
H310874	RF650S10T-BWN
H310904	RF650S10T-BWQ
H310934	RF650S10T-CWN
H310964	RF650S10T-CWQ
H310875	RF650S12T-BWN
H310905	RF650S12T-BWQ
H310935	RF650S12T-CWN
H310965	RF650S12T-CWQ

◆ RF214S (Inch)

Product code	Model no.
H310876	RF214S6T-BWN
H310906	RF214S6T-BWQ
H310936	RF214S6T-CWN
H310966	RF214S6T-CWQ
H310877	RF214S8T-BWN
H310907	RF214S8T-BWQ
H310937	RF214S8T-CWN
H310967	RF214S8T-CWQ
H310878	RF214S10T-BWN
H310908	RF214S10T-BWQ
H310938	RF214S10T-CWN
H310968	RF214S10T-CWQ
H310879	RF214S12T-BWN
H310909	RF214S12T-BWQ
H310939	RF214S12T-CWN
H310969	RF214S12T-CWQ

◆ RF205S (Inch)

Product code	Model no.
H310880	RF205S8T-BWN
H310910	RF205S8T-BWQ
H310940	RF205S8T-CWN
H310970	RF205S8T-CWQ
H310881	RF205S10T-BWN
H310911	RF205S10T-BWQ
H310941	RF205S10T-CWN
H310971	RF205S10T-CWQ
H310882	RF205S12T-BWN
H310912	RF205S12T-BWQ
H310942	RF205S12T-CWN
H310972	RF205S12T-CWQ

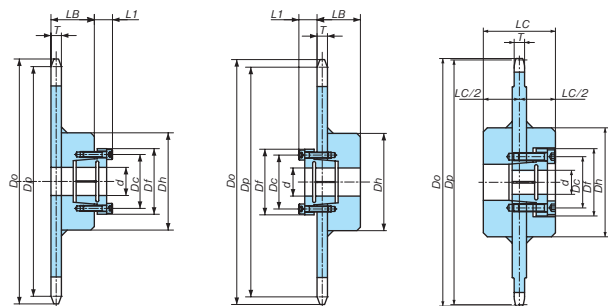
◆ RF6205S (Inch)

Product code	Model no.
H310883	RF6205S6T-BW1N
H310913	RF6205S6T-BW1Q
H310943	RF6205S6T-CW1N
H310973	RF6205S6T-CW1Q
H310884	RF6205S8T-BW1N
H310914	RF6205S8T-BW1Q
H310944	RF6205S8T-CW1N
H310974	RF6205S8T-CW1Q
H310885	RF6205S10T-BW1N
H310915	RF6205S10T-BW1Q
H310945	RF6205S10T-CW1N
H310975	RF6205S10T-CW1Q
H310886	RF6205S12T-BW1N
H310916	RF6205S12T-BW1Q
H310946	RF6205S12T-CW1N
H310976	RF6205S12T-CW1Q

◆ RF212S (Inch)

Product code	Model no.
H310887	RF212S6T-BW1N
H310917	RF212S6T-BW1Q
H310947	RF212S6T-CW1N
H310977	RF212S6T-CW1Q
H310888	RF212S8T-BW1N
H310918	RF212S8T-BW1Q
H310948	RF212S8T-CW1N
H310978	RF212S8T-CW1Q
H310889	RF212S10T-BW1N
H310919	RF212S10T-BW1Q
H310949	RF212S10T-CW1N
H310979	RF212S10T-CW1Q
H310890	RF212S12T-BW1N
H310920	RF212S12T-BW1Q
H310950	RF212S12T-CW1N
H310980	RF212S12T-CW1Q

Lock Series for Large-sized Conveyor Chains



BW Type A

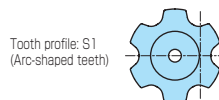
BW Type B

CW

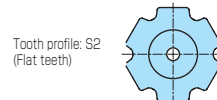
Model No.

RF03075R8T BW Q S38 A

Chain no.	Bore dia.	Sleeve mounting type
Sprocket type	BW or CW	Q : Hardened teeth N : Non-hardened
		A or B (Sprocket type: BW only)



Tooth profile: S1
(Arc-shaped teeth)



Tooth profile: S2
(Flat teeth)

Sleeve Dimensions

Sleeve no.	Df	Dc	L1	Bolt size	Tightening torque
				MxL	N·m
S4	56	46	15.5	M5x20	10.0
S5	66	56	17.5	M5x22	10.0
S6	80	68	21	M6x25	16.8

Prices are estimated by request. For details, contact your TSUBAKI representative.
Time for delivery: In 2 weeks (models up to RF05100); in 3 weeks (models RF05125 and over)

R-Rollers

No markings: Only DT chains are applicable. *: DT and AT chains are applicable.

Product code	Chain no.	No. of teeth	Chain pitch	Tooth width	Pitch circle dia.	Outer dia.	Tooth shape	With S4 sleeve used			With S5 sleeve used			With S6 sleeve used			Sleeve no. Bore dia. d	S4			S5			S6				
								Hub dia. Dh	BW LB	CW LC	Hub dia. Dh	BW LB	CW LC	Hub dia. Dh	BW LB	CW LC		28	30	32	35	38	40	42	45	48	50	55
Max. permissible transmission torque [N·m]																	462	495	528	771	837	881	1627	1743	1860	1937	2131	
																	616	661	705	963	1046	1101	1953	2092	2232	2325	2557	

H39	RF03075	6	75	11.9	150.00	158	S1	83	37	62																				
		8	75	11.9	195.98	209	S1	83	37	62	107	41	70	117	57	103														
		10	75	11.9	242.71	259	S1				107	41	70	137	61	110									*	*	*	*	*	
		12	75	11.9	289.78	308	S1				127	43	73	177	58	103									*	*	*	*	*	
	RF03100	6	100	11.9	200.00	206	S2	117	43	74	107	41	70																	
		8	100	11.9	261.31	272	S2				107	41	70	137	61	110											*	*	*	*
		10	100	11.9	323.61	336	S1				127	43	73	137	61	110											*	*	*	*
		12	100	11.9	386.37	401	S1							137	61	110														
	RF05100	8	100	18	261.31	272	S1							137	67	116														
		10	100	18	323.61	340	S1							177	64	109														
	RF05125	6	125	18	250.00	256	S2							137	67	116														
		8	125	18	326.64	338	S2							177	64	109														
RF05150	6	150	18	300.00	304	S2							177	64	109															

F-Roller

Product code	Chain no.	No of teeth	Chain pitch	Tooth width	Pitch circle dia.	Outer dia.	Tooth shape	With S4 sleeve used			With S5 sleeve used			With S6 sleeve used			Sleeve no.	S4			S5			S6					
								Hub dia. Dh	BW LB	CW LC	Hub dia. Dh	BW LB	CW LC	Hub dia. Dh	BW LB	CW LC		Max. permissible transmission torque [N·m]	Bore dia. d	28	30	32	35	38	40	42	45	48	50
																	462			495	528	771	837	881	1627	1743	1860	1937	2131
																	616			661	705	963	1046	1101	1953	2092	2232	2325	2557
H39	RF03075	6	75	8.9	150.00	158	S1	83	34	59																			
		8	75	8.9	195.98	209	S1	83	34	59	107	38	67	117	54	100													
		10	75	8.9	242.71	259	S1				107	38	67	137	58	107					*	*	*	*	*	*	*	*	
		12	75	8.9	289.78	308	S1				127	40	70	177	55	100						*	*	*	*	*	*	*	
	RF03100	6	100	8.9	200.00	206	S2	117	40	71	107	38	67																
		8	100	8.9	261.31	272	S2				107	38	67	137	58	107										*	*	*	*
		10	100	8.9	323.61	336	S1				127	40	70	137	58	107										*	*	*	*
		12	100	8.9	386.37	401	S1							137	58	107													
	RF05100	8	100	11.9	261.31	273	S1							137	61	110													
		10	100	11.9	323.61	340	S1							177	58	103													
	RF05125	6	125	11.9	250.00	256	S2							137	61	110													
		8	125	11.9	326.64	338	S2							177	58	103													
RF05150	6	150	11.9	300.00	304	S2							177	58	103														

S-Roller

Product code	Chain no.	No. of teeth	Chain pitch	Tooth width	Pitch circle dia.	Outer dia.	Tooth shape	With S4 sleeve used			With S5 sleeve used			With S6 sleeve used			Sleeve no.	S4			S5			S6						
								Hub dia. <i>D_h</i>	BW <i>L_B</i>	CW <i>L_C</i>	Hub dia. <i>D_h</i>	BW <i>L_B</i>	CW <i>L_C</i>	Hub dia. <i>D_h</i>	BW <i>L_B</i>	CW <i>L_C</i>		Max. permissible transmission torque (N·m)	Bore dia. <i>d</i>	28	30	32	35	38	40	42	45	48	50	55
																				462	495	528	771	837	881	1302	1395	1488	1550	1705
																				616	661	705	963	1046	1101	1627	1743	1860	1937	2131
H39	RF03075	6	75	11.9	150.00	158	S1	83	37	62																				
		8	75	11.9	195.98	206	S1	83	37	62	107	41	70	117	57	103					*	*	*	*	*	*	*	*	*	
		10	75	11.9	242.71	252	S1				107	41	70	137	61	110					*	*	*	*	*	*	*	*	*	
		12	75	11.9	289.78	299	S1				127	43	73	177	58	103						*	*	*	*	*	*	*		
	RF03100	6	100	11.9	200.00	210	S2	107	41	70	107	41	70																	
		8	100	11.9	261.31	269	S2				107	41	70	137	61	110										*	*	*	*	
		10	100	11.9	323.61	333	S1				127	43	73	137	61	110										*	*	*	*	
		12	100	11.9	386.37	396	S1							137	61	110														
	RF05075	10	75	18	242.71	256	S1							137	67	116														
		12	75	18	289.78	303	S1							177	64	109														
	RF05100	8	100	18	261.31	273	S1							137	67	116														
		10	100	18	323.61	337	S1							177	64	109														
	RF05125	6	125	18	250.00	262	S2							137	67	116														
8		125	18	326.64	340	S2							177	64	109															
RF05150	6	150	18	300.00	310	S2							177	64	109															

Some models includes products with hanging holes on the plate.

For details, refer to page 155.

Selectable Hub Specifications and Dimensions

Dedicated selectable hubs in stock are designed for conveyor sprockets.

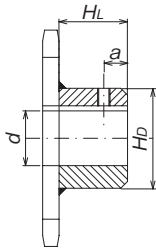
The following section provides information on the standard bore diameters, key specifications, and tap specifications of these hubs. Hubs in dimensions other than the standard dimensions specified in the catalog can be chosen freely and manufactured within short periods of time.

1. Finished Bore Dimensions

The standard bore diameter on each selectable hub basis is listed below. Select the desired standard bore diameter from the corresponding hub number.

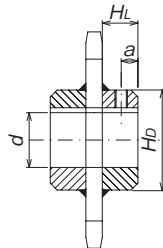
BW selectable hub

Hub no.: SB1 to SB11



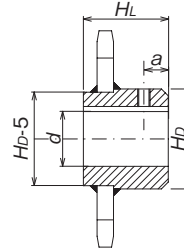
CW selectable hub

Hub no.: SC1 to SC12



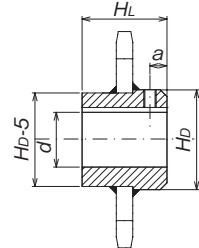
BW1 selectable hub

Hub no.: TB1 to TB12



CW1 selectable hub

Hub no.: TC1 to TC12



Bore Processing Range * Bore processing * Keyway processing * Setscrew tap (two points at 120° intervals)

No setscrews are provided.

BW Selectable Hub

Hub no.	Max. bore dia. d_{max}	Pilot bore dia. d	Hub dia. H_D	Hub length H_L	Tap position a	Mass (kg)	Standard bore dia.																			
							Finished bore dia. d												Tolerance H8							
							25	28	30	35	38	40	45	50	55	60	65	70	75	80	85	90	95	100	110	115
SB1	50	18	73	45	12	1.4	●	●	●	●	●	●	●													
SB2	55	18	83	50	15	2.0		●	●	●	●	●	●	●	●											
SB3	60	18	93	55	15	2.8			●	●	●	●	●	●	●	●										
SB4	65	18	98	60	15	3.4				●	●	●	●	●	●	●	●									
SB5	75	28	107	68	18	4.5				●	●	●	●	●	●	●	●	●								
SB6	80	33	117	76	18	5.9					●	●	●	●	●	●	●	●	●							
SB7	85	33	127	86	18	8.0						●	●	●	●	●	●	●	●	●						
SB8	95	33	137	98	24	10.7							●	●	●	●	●	●	●	●	●	●				
SB9	100	38	147	101	24	12.6								●	●	●	●	●	●	●	●	●	●	●		
SB10	110	38	157	111	24	15.9									●	●	●	●	●	●	●	●	●	●	●	
SB11	115	38	167	122	30	19.9										●	●	●	●	●	●	●	●	●	●	●

CW Selectable Hub

Hub no.	Max. bore dia. d_{max}	Pilot bore dia. d	Hub dia. H_D	Hub length H_L	Tap position a	Mass (kg)	Standard bore dia.																							
							Finished bore dia. d																	Tolerance H8						
							25	28	30	35	38	40	45	50	55	60	65	70	75	80	85	90	95	100	110	115	120	130		
SC1	50	18	73	22.5	8	0.7	●	●	●	●	●	●	●																	
SC2	55	18	83	25	10	1.0		●	●	●	●	●	●	●																
SC3	60	18	93	27.5	10	1.4			●	●	●	●	●	●	●															
SC4	65	18	98	30	10	1.7				●	●	●	●	●	●	●														
SC5	75	28	107	34	12	2.2					●	●	●	●	●	●	●	●												
SC6	80	33	117	38	12	3.0						●	●	●	●	●	●	●	●											
SC7	85	33	127	43	12	4.0							●	●	●	●	●	●	●	●										
SC8	95	33	137	49	16	5.3								●	●	●	●	●	●	●	●									
SC9	100	38	147	50.5	16	6.3									●	●	●	●	●	●	●	●	●							
SC10	110	38	157	55.5	16	7.9										●	●	●	●	●	●	●	●	●						
SC11	115	38	167	61	20	9.9											●	●	●	●	●	●	●	●	●					
SC12	130	38	187	70.5	20	14.6												●	●	●	●	●	●	●	●	●				

Note: Two hubs are used for each sprocket.

BW1 Selectable Hub

Hub no.	Max. bore dia. d_{max}	Pilot bore dia. d	Hub dia. H_D	Hub length H_L	Tap position a	Mass (kg)	Standard bore dia.																				
							Finished bore dia. d																Tolerance H8				
							50	55	60	65	70	75	80	90	95	100	110	120	130	140	145	150	160	170	175	180	190
TB1	100	50	147	125	24	14.7		●	●	●	●	●	●	●	●												
TB2	110	55	157	135	24	18.0			●	●	●	●	●	●	●	●											
TB3	120	60	177	150	30	25.6				●	●	●	●	●	●	●	●										
TB4	130	65	187	160	30	30.3					●	●	●	●	●	●	●	●									
TB5	145	75	207	180	30	41.3						●	●	●	●	●	●	●	●								
TB6	160	80	227	200	30	55.6							●	●	●	●	●	●	●	●							
TB7	160	80	227	220	30	61.2								●	●	●	●	●	●	●	●						
TB8	175	85	247	220	36	72.9									●	●	●	●	●	●	●	●	●	●			
TB9	175	85	247	240	36	79.5										●	●	●	●	●	●	●	●	●	●		
TB10	190	95	267	240	36	92.1											●	●	●	●	●	●	●	●	●	●	
TB11	190	95	267	270	36	103.6												●	●	●	●	●	●	●	●	●	
TB12	210	100	297	260	36	125.3													●	●	●	●	●	●	●	●	●

CW1 Selectable Hub

Hub no.	Max. bore dia. d_{max}	Pilot bore dia. d	Hub dia. H_D	Hub length H_L	Tap position a	Mass (kg)	Standard bore dia.																							
							Finished bore dia. d												Tolerance H8											
							50	55	60	65	70	75	80	90	95	100	110	120	130	140	145	150	160	170	175	180	190	200	210	
TC1	100	50	147	125	16	14.7		●	●	●	●	●	●	●	●	●														
TC2	110	55	157	135	16	18.0			●	●	●	●	●	●	●	●	●													
TC3	120	60	177	150	20	25.6				●	●	●	●	●	●	●	●	●												
TC4	130	65	187	160	20	30.3					●	●	●	●	●	●	●	●	●											
TC5	145	75	207	180	20	41.3						●	●	●	●	●	●	●	●	●										
TC6	160	80	227	200	20	55.6							●	●	●	●	●	●	●	●	●									
TC7	160	80	227	220	20	61.2								●	●	●	●	●	●	●	●	●								
TC8	175	85	247	220	24	72.9									●	●	●	●	●	●	●	●	●	●	●	●				
TC9	175	85	247	240	24	79.5										●	●	●	●	●	●	●	●	●	●	●	●			
TC10	190	95	267	240	24	92.1											●	●	●	●	●	●	●	●	●	●	●			
TC11	190	95	267	270	24	103.6												●	●	●	●	●	●	●	●	●	●			
TC12	210	100	297	260	24	125.3													●	●	●	●	●	●	●	●	●	●		

2. Specifications and Dimensions of Keyway and Taps

■ Keyway Tolerance

JIS key (JISB1301-1996)

Standard key type (Js9)

Old JIS (JISB1301-1959)

Parallel key type 2 (E9)

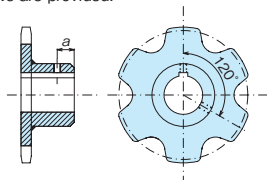
■ Keyway Phase

Phase alignment processing of tooth point center and key center

■ Tap Holes for Setscrews

Open the tap holes at 120° intervals. One of the holes must be located on the keyway. Refer to the list of selectable hub specifications and dimensions for size "a" in the axis direction.

Note: No setscrews are provided.



JIS standard key with Keyway width tolerance Js9				Old JIS key type 2 with Keyway width tolerance E9			
Applicable bore dia.	Keyway width KW	Keyway depth KH	Tap size MX	Applicable bore dia.	Keyway width KW	Keyway depth KH	Tap size MX
More than 22 and up to 30	8	3.3	M 6	More than 20 and up to 30	7	3	M 6
More than 30 and up to 38	10	3.3		More than 30 and up to 40	10	3.5	
More than 38 and up to 44	12	3.3	M 8	More than 40 and up to 50	12	3.5	M 8
More than 44 and up to 50	14	3.8		More than 50 and up to 60	15	5	
More than 50 and up to 58	16	4.3	M10	More than 60 and up to 70	18	6	M10
More than 58 and up to 65	18	4.4		More than 70 and up to 80	20	6	
More than 65 and up to 75	20	4.9	M12	More than 80 and up to 95	24	8	M12
More than 75 and up to 85	22	5.4		More than 95 and up to 110	28	9	M16
More than 85 and up to 95	25	5.4	M16	More than 110 and up to 125	32	10	
More than 95 and up to 110	28	6.4		More than 125 and up to 140	35	11	M20
More than 110 and up to 130	32	7.4	M20	More than 140 and up to 160	38	12	
More than 130 and up to 150	36	8.4		More than 160 and up to 180	42	13	M24
More than 150 and up to 170	40	9.4		More than 180 and up to 200	45	14	
More than 170 and up to 220	45	10.4	M24	More than 200 and up to 224	50	15.5	
More than 200 and up to 230	50	11.4		More than 224 and up to 250	56	17.5	

3. Model No.

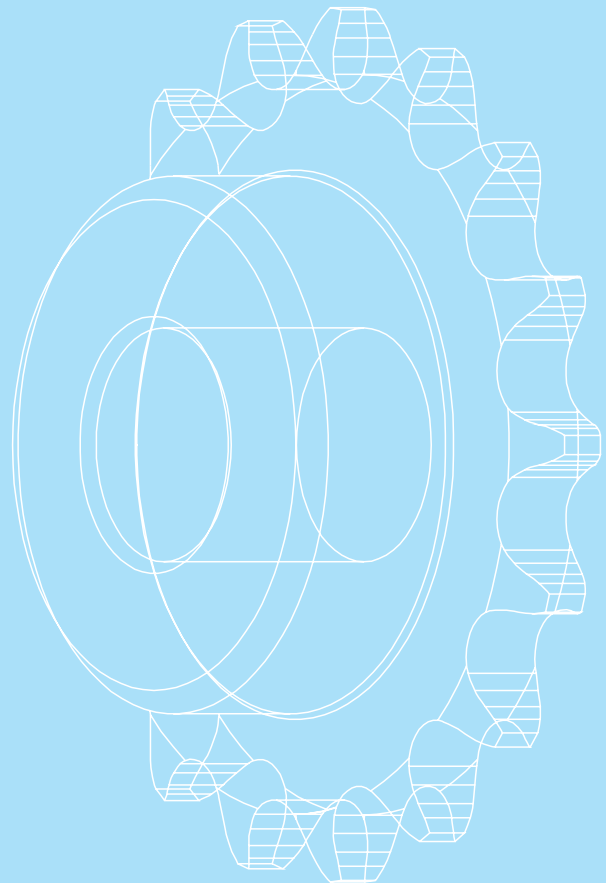
Use the following model legend to specify your desired sprocket dimensions and selectable hub.

RF10150	R	8T	SC11	Q	H80J
Chain no.					Finished bore size. A blank for products with Pilot bores.
Roller type					
No. of teeth			Hub no.		Tooth hardening. (N) for non-hardened teeth.

RF

SPROCKETS FOR LARGE-SIZED CONVEYOR CHAINS

TECHNICAL DATA



Technical Data on Sprockets for RF Conveyor Chains

1. Type

BW : A single hub is welded to one side of the plate.

BW1 : A single hub is pierced into the plate and welded on both sides.

CW : Hubs are welded to both sides of the plate.

CW1 : Hubs are pierced into the plate and welded on both sides.

Types vary according to each chain to be used. Each type is classified in the following table.

Type Classification

Type	Classification
BW	RF10150 or smaller in size (metric pitched)
CW	RF205 or smaller in size (inch pitched)
BW1	RF12200 or larger in size (metric pitched)
CW1	RF6205 or larger in size (inch pitched)

2. Material and Hardened Teeth

2-1 Teeth

All teeth use unique carbon steel for machine structures developed by TSUBAKI and can be finished with high-frequency hardening.

Either one of the following specifications are selectable according to the operating conditions.

● Non-hardened specification (N)

Non-hardened teeth suitable to light loads under low-abrasion conditions.

● Strong specification (Q)

Teeth processed with high-frequency hardening suitable to conditions that require anti-abrasion performance or high-load conditions.

Refer to the following table for the operating classification of the non-hardened specification (N) and strong specification (Q).

Operating Classification of Non-hardened and Strong Specifications

Chain specification	Roller type	Driving side		Driven side	
		Normal condition	Abrasive condition	Normal condition	Abrasive condition
DT specification	S	Q	Q	N	Q
	R	N	Q	N	N
	F	N	Q	N	N
AT specification	S	Q	Q	N	Q
	R	Q	Q	N	Q
	F	Q	Q	N	Q

The above is specified under general operating conditions. Consult your TSUBAKI representative if the product is used under tough abrasive conditions or high-load conditions.

2-2 Hubs

All hubs use rolled steel for general structure.

3. Additional Bore Processing

3-1 Finished Bore Specifications

The bore dimensions on page 173 are processed under the following specifications so that time-consuming shaft processing can be finished within short periods of time for delivery.

No setscrews are provided.

Standard Bore Processing Specifications

Bore tolerance	Keyway width tolerance (Aligned with tooth point)	Tap processing
H8	JISB1301-1996	Two taps processing at 120° intervals with one of them located on the keyway.
	Standard type Js9	
	Old JISB1301-1959 Type 2 E9	

Inform your TSUBAKI representative of the following details if processing specifications other than the above are required.

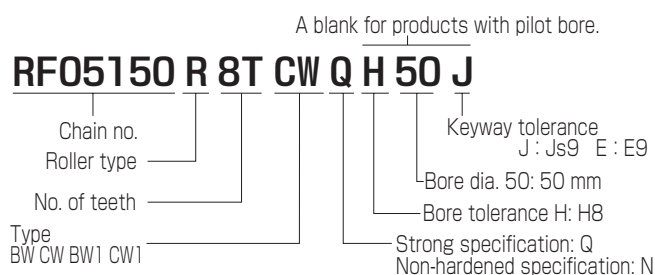
- Bore shape, diameter, and tolerance
- Keyway type, size, and tolerance
- Tap size and position

3-2 Keyway

The keyway is processed so that the tooth center of the sprocket coincides with the keyway center. Refer to the page on the right-hand side for the precision of the keyway. Chains can be used in parallel without modifying the keyway. If further precision is required, contact your TSUBAKI representative.

4. Sprocket Model No.

4-1 Products with Standard Finished Bore(Pilot Bore)



4-2 Special Products



In the case of special products, refer to the above example and specify the materials, dimensions, shapes, and processing instructions with attachments, such as drawings and specification sheets. It is sufficient the dimensions differing from the catalog are specified.

5. Sprocket Dimensional Accuracy

5-1 Tooth Width

The dimensional tolerance of the tooth width of each sprocket is shown in each size table.

5-2 Sprocket Overall Length

The following tables shows the tolerance of the overall length of each sprocket.

Unit: mm

Model	BW CW	BW1 CW1
Overall length		
Up to 80	0, -1.0	±0.3
More than 80 and up to 150	0, -1.2	±0.5
More than 150 and up to 200	0, -1.4	
More than 200 and up to 300	0, -1.8	

5-3 Runout

The eccentricity and face runout based on the outer diameter of the hub are shown in the following table.

Unit: mm

Outer dia.	Eccentricity	Face runout
Up to 200	1.0 max.	1.0 max.
More than 200 and up to 630	1.5 max.	1.5 max.
More than 630 and up to 1250	2.5 max.	2.5 max.

5-4 Keyway Center and Tooth Center

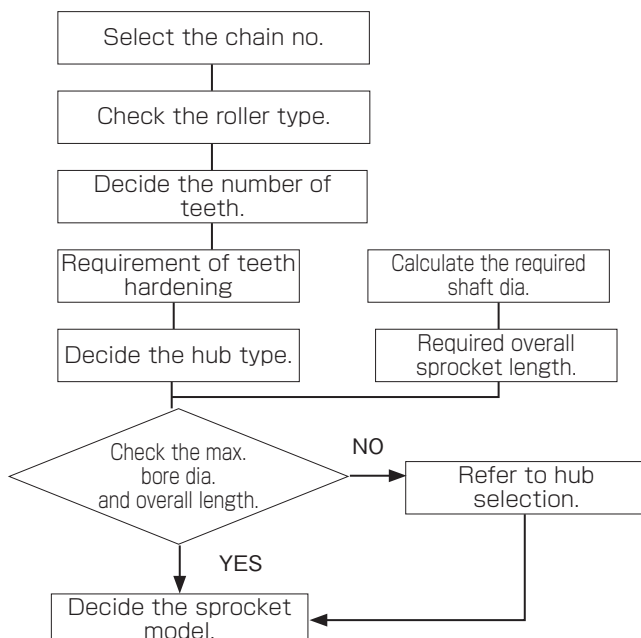
The off-center of the keyway center and tooth center based on the circumference are shown in the following table.

Unit: mm

Outer dia.	Off-center
Up to 400	3.0 max.
More than 400 and up to 800	4.0 max.
More than 800	6.0 max.

6. Selection

Select the desired sprocket number in the following procedure.



The maximum bore diameters and overall lengths of standard sprocket are set to economical dimensions considering the strength balance with AT-specified chains. Use selectable hubs if larger or smaller hubs are required.

7. Hub Selection

7-1 Selectable Hubs

Page 172 and 173 shows the external dimensions, maximum bore diameters, standard bore diameters, tap sizes with positions.

7-2 Hub Selection

In order to prevent the interference of the circumference of the hub with the link plate of the chain or the balance hole of the plate when selecting a hub, be sure to select the outer diameter of the hub not exceeding the corresponding size shown in the following table.

No. of teeth Chain no.	6T	8T	10T	12T
RF03075	90	135	180	230
RF03100	130	200	260	202
RF05075	-	127	170	215
RF05100	120	180	245	198
RF05125	160	240	198	234
RF05150	200	198	234	300
RF08125	160	245	198	234
RF08150	205	198	234	300
RF10100	107	167	225	194
RF10125	150	230	190	230
RF10150	190	190	230	296
RF12200	270	234	304	394
RF12250	238	304	394	514
RF17200	260	207	296	390
RF17250	230	296	386	502
RF17300	300	390	502	702
RF26200	235	222	292	382
RF26250	325	292	382	494
RF26300	296	382	494	694
RF36250	300	284	374	486
RF36300	395	374	486	690
RF430	130	195	260	198
RF204	-	110	150	195
RF450	127	180	245	198
RF650	200	198	234	300
RF214	107	175	240	190
RF205	-	120	170	220
RF6205	190	290	238	304
RF212	165	260	230	300

8. Special Sprockets

8-1 Specifications of Special Sprockets

Special sprockets will be made to order if standard sprockets or selectable hubs do not meet your requirement.

The following specifications are different from the standard ones.

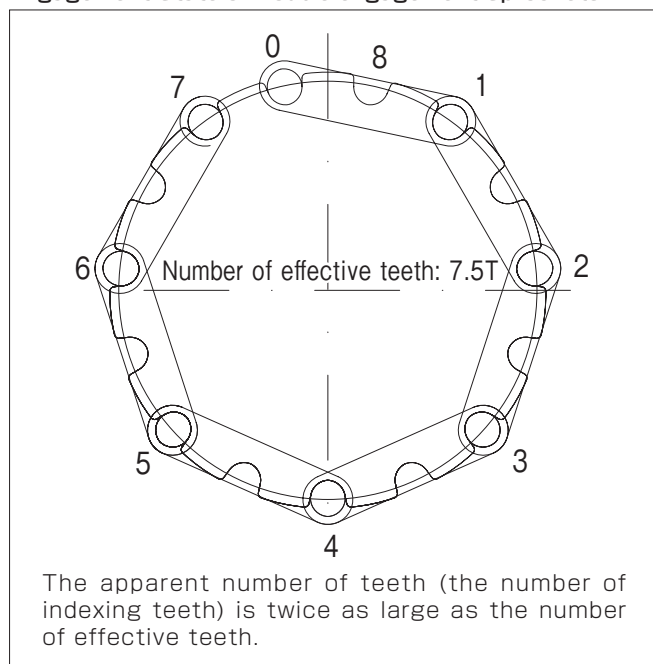
- Chain (pitch, roller dia. and inner width)
- Special tooth profile (pitch clearance and pressure angle)
- Other than standard no. of teeth (other than 6T, 8T, 10T, or 12T)
- Hub diameter and length other than those of selectable hubs
- Special bore shape and special key
- Special material, such as stainless steel
- Special shape
- Other special specifications (shaft assembly etc.)

8-2 Double-engagement Sprockets

Chain rollers engage with every other tooth of double-engagement sprockets. These sprockets are specified with 7.5T or 12.5T for example. The number of engagement times of the teeth is halved. These sprockets are ideal in order to prevent the excessive abrasion of the teeth.

Select standard hubs for the above sprockets.

Engagement State of Double-engagement Sprockets



Available effective number of teeth and dimensions

Chain no.	No. of effective teeth	Pitch circle dia. Dp	Outer dia. (Do)	Unit: mm
				Tooth width T
RF03075S	7.5	184.4	194	11.9
	12.5	301.6	311	
RF03100S	7.5	245.9	253	
	12.5	402.1	412	
RF05100S	7.5	245.9	257	18
	12.5	402.1	416	
RF05125S	7.5	307.3	313	
	12.5	502.6	516	
RF05150S	7.5	368.8	369	
	12.5	603.2	616	
RF08125S	7.5	307.3	321	
	12.5	502.6	516	
RF08150S	7.5	368.8	378	22
	12.5	603.2	617	
RF10125S	7.5	307.3	322	
	12.5	502.6	520	
RF10150S	7.5	368.8	378	
	12.5	603.2	621	
RF430S	7.5	249.8	260	18
	12.5	408.5	421	
RF450S	7.5	249.8	263	22
	12.5	408.5	422	
RF650S	7.5	374.7	390	22
	12.5	612.8	628	
RF12200S	7.5	491.7	510	28
	12.5	804.2	825	
RF12250S	7.5	614.6	623	
	12.5	1005.3	1026	
RF17200S	7.5	491.7	516	
	12.5	804.2	828	
RF17250S	7.5	614.6	637	40
	12.5	1005.3	1029	
RF17300S	7.5	737.6	749	
	12.5	1206.3	1230	
RF6205S	7.5	374.7	396	22
	12.5	612.8	634	

8-3 Sprocket Size Calculation Formula

- Pitch circle dia.

$$Dp = P / \sin(180^\circ / N)$$

P : Chain pitch (mm)

N : No. of sprocket teeth

- Outer dia. (Outline)

Precision-flame cut tooth : $Do = Dp + 0.6R$

Machine-cut tooth : $Do = Dp + 0.4R$

R : Chain roller dia. (mm)

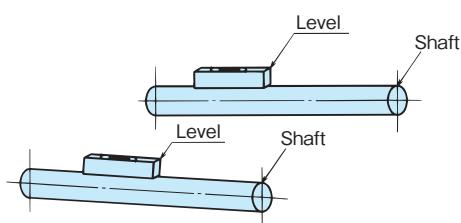
Handling of Conveyor Chains

1. Installation

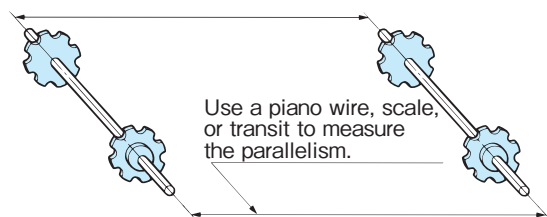
1-1 Mounting Sprockets

The mounting accuracy of sprockets to shafts has a great influence on the operation of the conveyors, and shortens or extends the life of the conveyor chains. Take the following steps to mount the sprockets correctly.

- 1) Use a level and perform the leveling of the shaft.
Adjust the leveling accuracy within a range of $\pm 1/300$.



- 2) Adjust the parallelism of the shafts.
Use an appropriate tool, such as a scale, and adjust the parallelism of the shaft to a range of ± 1 mm.
- 3) Correct the inconsistency of the pair of sprockets.

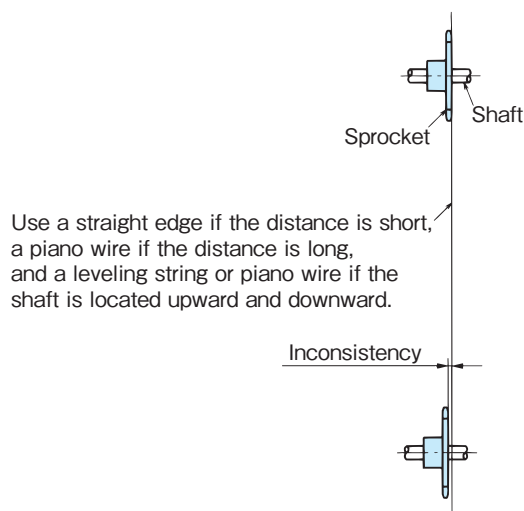


Up to a shaft-to-shaft distance of 1 m: ± 1 mm

Shaft-to-shaft distance of 1 to 10 m:

$$\frac{\pm \text{Shaft-to-shaft distance (mm)}}{1000}$$

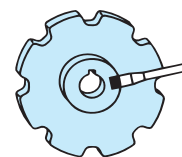
Shaft-to-shaft distance of more than 10 m: ± 10 mm



- 4) After the sprockets are mounted correctly, fix them to the shafts with appropriate parts, such as keys. If the sprockets are used in parallel, fix them so that the teeth of the two sprockets on the shafts are the same in phase. Lock sprockets with no keys are available as well.

1-2 Storage of Chains and Sprockets

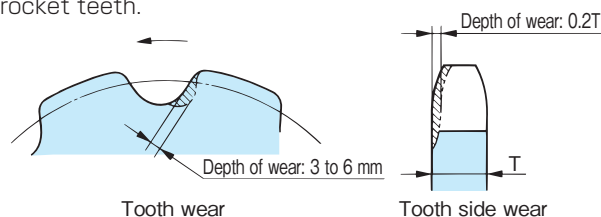
Do not store bared chains or sprockets in places exposed to dust, dirt, or rainwater. For the prevention of rust on the hub ends and bores, use a brush and apply oil to the sprockets elaborately.



No rust preventive measures are taken for chains before shipping. Apply rust preventive oil to the chains before storing the chains and regularly inspect them.

1-3 Wear of Sprocket Teeth and Sides

Refer to the following illustration for the wear limits of sprocket teeth.

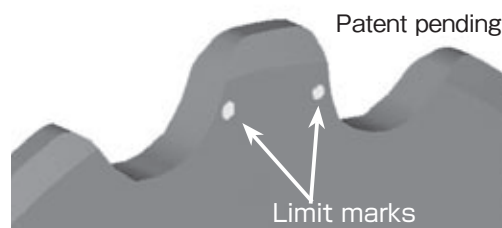


If a sprocket wears out in the tooth width direction as shown in the illustration on the right-hand side, it means that the centering of the shaft is inaccurate. Therefore, the alignment must be corrected.

2. Option

2-1 Specifications with wear Limit Marks※

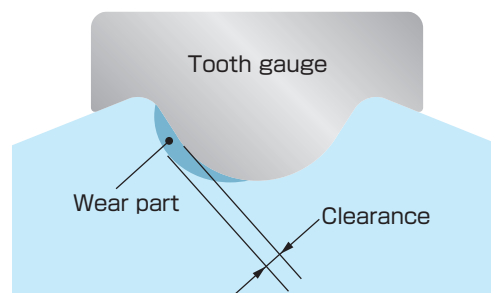
Embed a brass limit mark each (to a depth of 3 to 5 mm) on both sides of the imposition point of chain roller loads. When the teeth of a sprocket reach the wear limits, a limit line will appear on the teeth. This ensures ease of judging the life of the sprocket.



2-2 Tooth Gauge※

The tooth gauge is made of a thin steel plate processed according to the design of the teeth. The depth of wear of a sprocket can be checked with ease by applying the tooth gauge to the teeth of the sprocket.

As a rough standard, the sprocket should be replaced when the depth of wear reaches 3 to 6 mm.



※ When ordering sprockets, add "with wear limit marks" or "with tooth gauge" to the product names. For the specifications and prices in detail, contact your TSUBAKI representative.

Reference Data

Keyway Dimensions and Tolerances

New JIS (B1301-1996)

Old JIS (B1301-1959)

Applicable shaft dia. <i>d</i>	Keyway width <i>b₂</i>	Tolerance (Js9)	Keyway depth <i>t₂</i>	Tolerance	Setscrew <i>M_x</i>	Applicable shaft dia. <i>d</i>	Keyway width <i>b₂</i>	Tolerance (F7)	Keyway depth <i>t₂</i>	Tolerance	Setscrew <i>M_x</i>
10~12	4	±0.0150	1.8	+0.1 0	M4	10 and up to 13	4	+0.022	1.5	+0.050 0	M4
12~17	5		2.3		M5	More than 13 and up to 20	5	+0.010	2.0		M5
17~22	6		2.8		M6	More than 20 and up to 30	7	+0.028	3.0		M6
22~30	8	±0.0180	3.3	+0.2 0	M8	More than 30 and up to 40	10	+0.013	3.5	+0.050 0	M8
30~38	10		3.3			More than 40 and up to 50	12	+0.034 +0.016	3.5		
38~44	12		3.3			More than 50 and up to 60	15		5.0		
44~50	14	±0.0215	3.8	+0.2 0	M10	More than 60 and up to 70	18	+0.041 +0.020	6.0	+0.075 0	M10
50~58	16		4.3			More than 70 and up to 80	20		6.0		
58~65	18		4.4			More than 80 and up to 95	24		8.0		
65~75	20	±0.0260	4.9	+0.3 0	M12	More than 95 and up to 110	28	+0.050 +0.025	9.0	+0.100 0	M12
75~85	22		5.4			More than 110 and up to 125	32		10.0		
85~95	25		5.4			More than 125 and up to 140	35		11.0		
95~110	28	±0.0310	6.4	+0.3 0	M16	More than 140 and up to 160	38	+0.060 +0.030	12.0	+0.100 0	M16
110~130	32		7.4			More than 160 and up to 180	42		13.0		
130~150	36		8.4			More than 180 and up to 200	45		14.0		
150~170	40	±0.0370	9.4	+0.3 0	M20	More than 200 and up to 224	50	+0.071 +0.036	15.5	+0.100 0	M20
170~200	45		10.4			More than 224 and up to 250	56		17.5		
200~230	50		11.4			More than 250 and up to 280	63		20.0		
230~260	56	±0.0435	12.4	+0.3 0	M24	More than 280 and up to 315	71	+0.071 +0.036	22.5	+0.100 0	M24
260~290	63		12.4			More than 315 and up to 355	80		25.0		
290~330	70		14.4			More than 355 and up to 400	90		28.0		
330~380	80	±0.0435	15.4	+0.3 0		More than 400 and up to 450	100	+0.071 +0.036	31.5	+0.100 0	
380~440	90		17.4			More than 450 and up to 500	112		35.5		
440~500	100		19.5								

Bore Dimensional Tolerance (Extracted from JIS B0401-2)

Unit: μ m

Diameter mm		G7		H6		H7		H8		M7		N7		P7		R7	
More than	Up to	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
3	6	+16	+ 4	+ 8	0	+12	0	+18	0	+0	-12	-4	-16	-8	-20	-11	-23
6	10	+20	+ 5	+ 9	0	+15	0	+22	0	+0	-15	-4	-19	-9	-24	-13	-28
10	18	+24	+ 6	+11	0	+18	0	+27	0	+0	-18	-5	-23	-11	-29	-16	-34
18	30	+28	+ 7	+13	0	+21	0	+33	0	+0	-21	-7	-28	-14	-35	-20	-41
30	40	+34	+ 9	+16	0	+25	0	+39	0	+0	-25	-8	-33	-17	-42	-25	-50
40	50																
50	65	+40	+10	+19	0	+30	0	+46	0	+0	-30	-9	-39	-21	-51	-30	-60
65	80															-32	-62
80	100	+47	+12	+22	0	+35	0	+54	0	+0	-35	-10	-45	-24	-59	-38	-73
100	120															-41	-76
120	140	+54	+14	+25	0	+40	0	+63	0	+0	-40	-12	-52	-28	-68	-48	-88
140	160															-50	-90
160	180	+61	+15	+29	0	+46	0	+72	0	+0	-46	-147	-60	-33	-79	-53	-93
180	200															-60	-106
200	225	+69	+17	+32	0	+52	0	+81	0	+0	-52	-14	-66	-36	-88	-63	-109
225	250															-67	-113
250	280	+75	+18	+36	0	+57	0	+89	0	+0	-57	-16	-73	-41	-98	-74	-126
280	315															-78	-130
315	355	+83	+20	+40	0	+63	0	+97	0	+0	-63	-17	-80	-45	-108	-87	-144
355	400															-93	-150
400	450	+83	+20	+40	0	+63	0	+97	0	+0	-63	-17	-80	-45	-108	-103	-166
450	500															-109	-172

Safety Precautions

WARNING *Heed the information provided below for the prevention of danger.

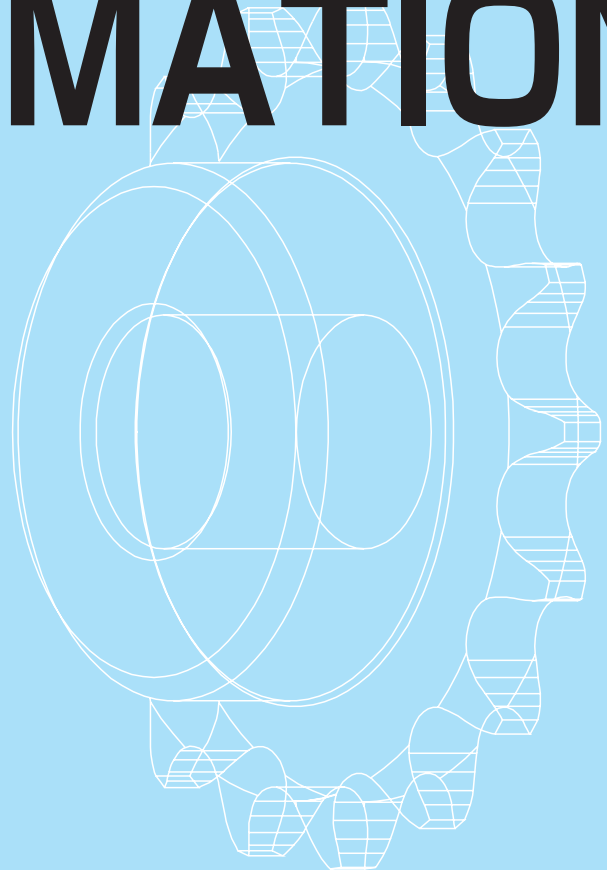
- Be sure to read the operation manual before using or adding sprockets.
- In the case of using sprockets for hoisting equipment, prepare a safety fence, and never stand under objects hoisted.
- Be sure to provide safety apparatus (e.g., safety covers) to all sprockets and chains.
- If a serious risk is expected as a result of the loosening of tightening bolts caused by the mounting and operating conditions of the equipment in use, take safety measures for the equipment. Furthermore, regularly check the tightening of the bolts.
- Follow your local safety regulation if any.
- Follow the instructions below in the case of mounting, dismantling, inspecting, or lubricating sprockets.
 - Read and heed the instructions in the operation manuals and catalogs before conducting work.
 - Be sure to turn off the main power switch of the equipment in use. Furthermore, be careful not to turn on the switch abruptly.
 - Secure the sprockets and chains so that they will not move freely.
 - In the case of disassembling the sprockets of hosting equipment, be sure to free the load on the equipment first.
 - Wear suitable clothes and protective gear (e.g., safety glasses, gloves, and shoes).
 - Make sure that skilled workers replace the sprockets.

CAUTION *Heed the information provided below for the prevention of danger.

- Be sure to understand the specifications of sprockets before handling the sprockets.
- Check that new sprockets are free of damage that may have been caused during the transportation of the sprockets before installing the new sprockets or replacing existing sprockets with the new sprockets.
- Be sure to conduct maintenance/inspections on sprockets and chains regularly.
- Make sure that the operation manuals for sprockets are delivered to the end users of the sprockets.
 - If the operation manuals are not at hand, request them from your dealer or TSUBAKI representative with the product names, series names, and model numbers specified.

FLEXIBLE COUPLINGS

PRODUCT INFORMATION



FLEXIBLE COUPLINGS

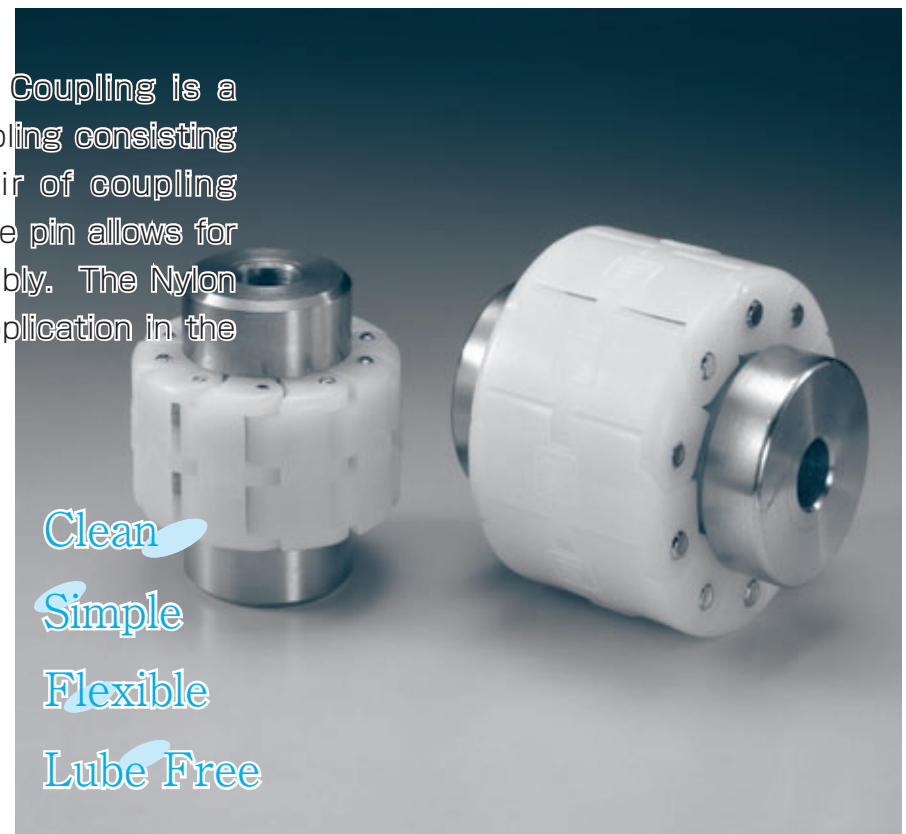
Roller Chain Couplings

A flexible coupling manufactured with TSUBAKI's experience and technology to wind a sturdy two-strand roller chains around two sprockets.



Nylon Chain Couplings

The TSUBAKI Nylon Chain Coupling is a nonlubricated, clean flex coupling consisting of a nylon chain and a pair of coupling sprockets. A slip-fitted couple pin allows for easy assembly and disassembly. The Nylon Chain Coupling is ideal for application in the food and textile industries.



Roller Chain Couplings

Features

Outstanding Durability

The coupling performs outstanding durability with the torque on the coupling shared with the surface-hardened teeth of the sprockets and the powerful roller chains that engage with the teeth.

Easy Coupling and Decoupling

Both shafts can be easily coupled or decoupled with a single joint pin inserted into or extracted from the roller chains.

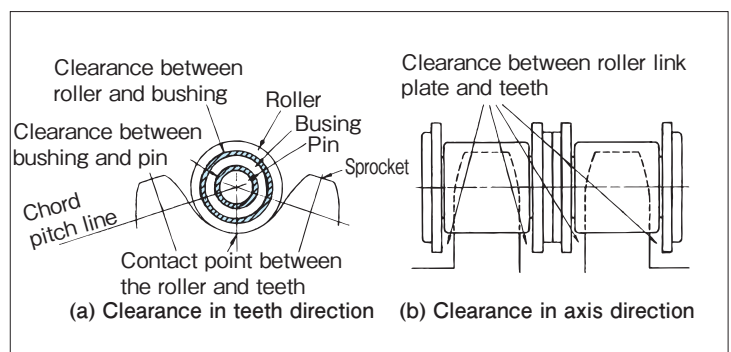
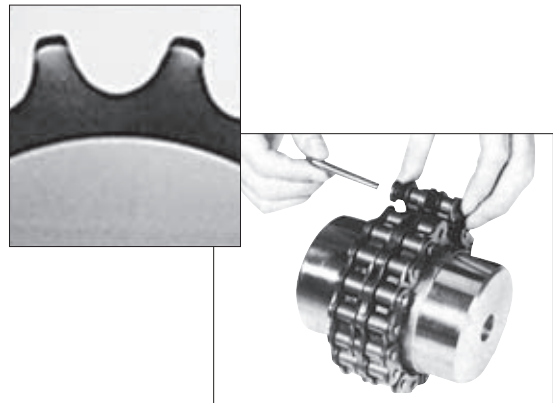
Absorption of Large Misalignment

The clearances between the chains and sprockets and between chain components absorb the great positional misalignment of both shafts.

Models in a Wide Variety

A total of 24 models including 15 models conforming to JIS and 9 other models are standardized.

(Roller chain shaft joint: Conforms to JIS B 1456-1989)



Eliminates time-consuming bore processing.



● Fit Bore Series —See page 187—

TSUBAKI offers 117 dimensions of standard bore processing and deliver them within a short time in response to orders.

The standard tolerance of bore processing is based on H7 and support to the tolerances of press fitting too.

Keyway tolerances are in conformity with new JIS Js9 and P9 and old JIS F7 and E9.

Ordering Information on Roller Chain Couplings

- Place each order with the product code and model number.

• Body with Pilot bore

Product code	Model no.	Quantity	Unit
H510001	CR3812H	10	K (units)

• Casing (Sold separately. Place orders if required.)

Product code	Model no.	Quantity	Unit
H510030	CR3812K	10	K (units)

● Model No.

Pilot Bore (Body)

CR 38 12 H

CR: Chain coupling
38: Chain no.
12: No. of sprocket teeth
H: Body

Casing

CR3812K

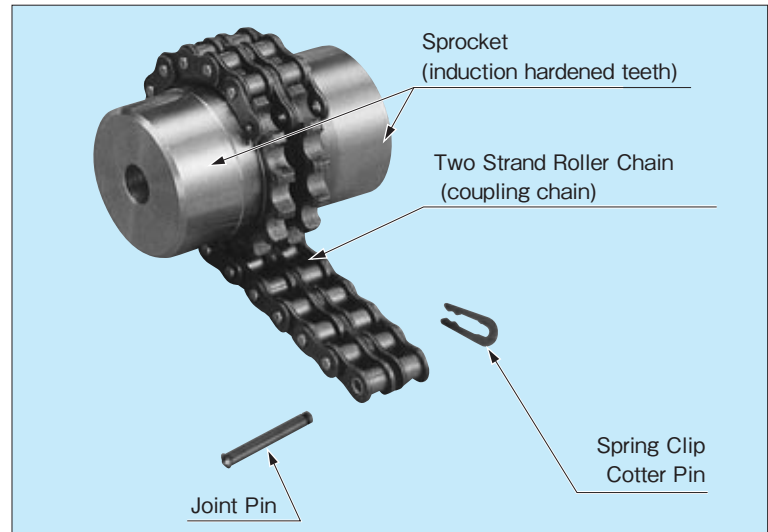
Dedicated casing: If required.
(Oil seal, packing, and mounting bolt included.)

Note: Place orders of body and casings separately.

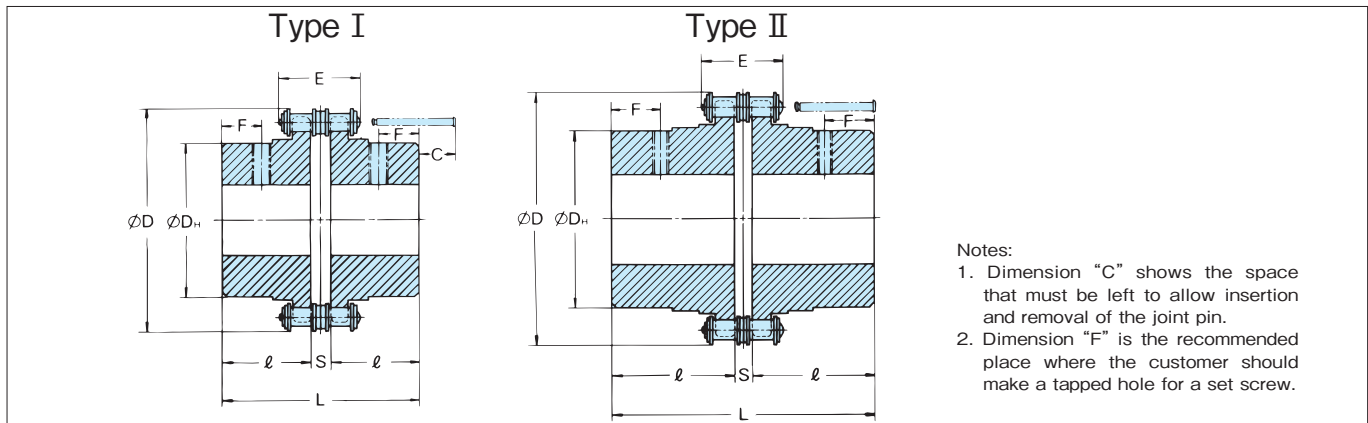
Body Construction

Body

The body consists of two dedicated sprockets with hardened teeth and two-strand roller chains. The sprockets are coupled when the chains are wound around the sprockets, and decoupled with the chains removed. Therefore, transmission power can be coupled or separated without moving the transmission system.



Dimensions (H)



Unit: mm

Product code	Model no.	JIS code	Type	Pilot bore dia.	Bore dia.		Inertia kg·m ²	GD ² [kgf·m ²]	Chain		D	DH	L	R	S	C	F	Approx. Mass kg
					Min.	Max.			Pitch	Max. Width								
H510001	CR 3812H	—	I	8	9.5	16	5.60×10 ⁻⁵	[2.24×10 ⁻⁴]	9.525	24.0	45	25	64.9	30	4.9	4	14	0.3
H510002	CR 4012H	4012		9	11	22	2.47×10 ⁻⁴	[9.89×10 ⁻⁴]	12.70	33.1	61	35	79.4	36	7.4	10	16	0.8
H510003	CR 4014H	4014		9	11	28	4.53×10 ⁻⁴	[1.81×10 ⁻³]	12.70	33.1	69	43	79.4	36	7.4	10	16	1.1
H510004	CR 4016H	4016		13	16	32	7.90×10 ⁻⁴	[3.16×10 ⁻³]	12.70	33.1	77	50	87.4	40	7.4	10	20	1.6
H510005	CR 5014H	5014		13	16	35	1.37×10 ⁻³	[5.49×10 ⁻³]	15.875	41.0	86	53	99.7	45	9.7	12	21	2.2
H510006	CR 5016H	5016		18	18	40	2.18×10 ⁻³	[8.72×10 ⁻³]	15.875	41.0	96	60	107	45	9.7	12	21	2.8
H510007	CR 5018H	5018		18	18	45	3.53×10 ⁻³	[1.41×10 ⁻²]	15.875	41.0	107	70	107	45	9.7	12	21	3.6
H510008	CR 6018H	6018		18	22	56	9.33×10 ⁻³	[3.73×10 ⁻²]	19.05	51.1	128	85	123.5	56	11.5	15	26	6.5
H510009	CR 6022H	6022		18	28	71	2.16×10 ⁻²	[8.63×10 ⁻²]	19.05	51.1	152	110	123.5	56	11.5	15	26	10.3
H510010	CR 8018H	8018		23	32	80	3.63×10 ⁻²	[1.45×10 ⁻¹]	25.40	65.3	170	115	141.2	63	15.2	30	26	13.8
H510011	CR 8022H	8022		28	40	100	8.00×10 ⁻²	[3.20×10 ⁻¹]	25.40	65.3	203	140	157.2	71	15.2	30	26	21.7
H510012	CR10020H	10020		33	45	110	1.61×10 ⁻¹	[6.42×10 ⁻¹]	31.75	81.9	233	160	178.8	80	18.8	30	36	32.6
H510013	CR12018H	12018	II	43	50	125	2.68×10 ⁻¹	[1.07]	38.10	102.7	256	170	202.7	90	22.7	50	36	43.9
H510014	CR12022H	12022		53	56	140	5.93×10 ⁻¹	[2.37]	38.10	102.7	304	210	222.7	100	22.7	40	46	69.0
H510015	CR16018H	16018		58	63	160	1.05	[4.19]	50.80	131.7	341	224	254.1	112	30.1	68	42	96.3
H510016	CR16022H	16022		73	80	200	2.50	[9.99]	50.80	131.7	405	280	310.1	140	30.1	40	70	166.8
H510017	CR20018H	—		85	88	205	4.60	[1.84×10]	63.50	160.6	426	294	519.5	241	37.5	—	100	294.4
H510018	CR20022H	—		95	98	260	1.07×10	[4.26×10]	63.50	160.6	507	374	519.5	241	37.5	—	100	461.6
H51	CR24022H	—		117	120	310	2.70×10	[1.08×10 ²]	76.20	197.3	608	420	751.1	353	45.1	—	150	871.4
H51	CR24026H	—		147	150	380	5.70×10	[2.28×10 ²]	76.20	197.3	705	520	751.1	353	45.1	—	150	1276.4
H51	CR32022H	—		197	200	430	1.08×10 ²	[4.32×10 ²]	101.60	263.0	806	570	860.1	400	60.1	—	200	1791.2
H51	CR40020H	—		247	250	470	2.29×10 ²	[9.16×10 ²]	127.0	332.3	932	640	1099.6	512	75.6	—	250	2862.5
H51	CR40024H	—		297	300	590	4.95×10 ²	[1.98×10 ³]	127.0	332.3	1093	800	1099.6	512	75.6	—	250	4294.6
H51	CR40028H	—		347	350	700	9.48×10 ²	[3.79×10 ³]	127.0	332.3	1255	960	1099.6	512	75.6	—	250	6019.4

Notes: 1. The pilot bores of the items in bold are normally in stock, while those in regular typeface are made to order. If you require a size larger than those specified, please consult TSUBAKI.
2. The range of bore diameters for the CR4012-J to CR16022-J conforms to JIS standards. However, the minimum bore diameter can be of larger bore than the pilot bore. The maximum bore diameter shows the permissible bore diameter for standard smooth transmission with no impact or reverse rotation.
3. The items in regular typeface are made to order and the dimension "DH" is just for reference.
4. Inertia and GD² are based on pilot bore.

Kilowatt Ratings Table

Note: Be sure to follow the procedure on page 186 for the selection of couplings.

Unit: kW

Model no.	Max. bore dia. (mm)	Max. allowable transmission torque at below 50 r/min. (N·m)	Speed of rotation (r/min.)											
			1	5	10	25	50	100	200	300	400	500	600	800
CR 3812	16	99.9	0.01	0.05	0.11	0.26	0.52	0.79	1.21	1.58	1.89	2.26	2.58	3.19
CR 4012	22	217	0.02	0.11	0.22	0.58	1.15	1.73	2.63	3.46	4.15	4.96	5.67	7.01
CR 4014	28	295	0.03	0.16	0.32	0.79	1.58	2.36	3.59	4.72	5.66	6.77	7.72	9.56
CR 4016	32	386	0.04	0.21	0.41	1.03	2.06	3.09	4.69	6.17	7.41	8.85	10.1	12.5
CR 5014	35	562	0.06	0.30	0.60	1.50	3.00	4.48	6.80	8.95	10.7	12.8	14.7	18.1
CR 5016	40	735	0.08	0.39	0.78	1.95	3.91	5.86	8.92	11.7	14.1	16.8	19.2	23.8
CR 5018	45	931	0.10	0.50	0.99	2.48	4.95	7.43	11.3	14.9	17.8	21.3	24.4	30.1
CR 6018	56	1750	0.18	0.93	1.87	4.67	9.33	14.0	21.3	28.0	33.6	40.1	45.9	56.8
CR 6022	71	2370	0.25	1.25	2.51	6.31	12.5	18.8	28.6	37.7	45.3	54.1	61.9	76.5
CR 8018	80	3880	0.41	2.07	4.14	10.3	20.7	31.0	47.2	62.1	74.5	89.0	101	126
CR 8022	100	5580	0.59	2.96	5.93	14.8	29.6	44.5	67.2	89.0	106	127	146	180
CR10020	110	8780	0.93	4.66	9.33	23.3	46.6	70.0	106	140	168	200	229	283
CR12018	125	13200	1.40	7.02	14.0	35.1	70.2	105	160	210	252	302	345	426
CR12022	140	17100	1.81	9.07	18.1	45.3	90.7	136	206	272	326	390	446	551
CR16018	160	28600	3.03	15.1	30.3	75.8	151	227	345	455	546	652	746	922
CR16022	200	41700	4.43	22.1	44.3	110	221	333	506	665	799	954	1090	1350
CR20018	205	57000	6.06	30.3	60.6	151	303	454	691	909	1090	1300	1490	1840
CR20022	260	71900	7.63	38.2	76.3	191	382	572	871	1140	1370	1640	1880	
CR24022	310	129000	13.7	68.8	137	344	688	1030	1570	2060	2470	2960	3380	
CR24026	380	157000	16.7	83.7	167	418	837	1250	1900	2510	3010	3600		
CR32022	430	255000	27.2	136	272	680	1360	2040	2850	4080	4900			
CR40020	470	494000	52.6	263	526	1310	2630	3940	5990	7890	9470			
CR40024	590	602000	64.0	320	640	1600	3200	4800	7300	9600				
CR40028	700	717000	76.2	380	762	1900	3800	5700	8690	11400				
Lubrication type			I	II	III									

Unit: kW

Model no.	Max. bore dia. (mm)	Max. allowable transmission torque at below 50 r/min. (N·m)	Speed of rotation (r/min.)											
			1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
CR 3812	16	99.9	3.88	4.41	5.35	6.25	6.73	8.12	9.44	11.0	12.0	14.0	14.8	16.7
CR 4012	22	217	8.53	9.68	11.6	13.7	14.8	17.9	20.7	24.1	26.3	30.8		
CR 4014	28	295	11.64	13.21	15.8	18.7	20.2	24.4	28.3	32.9	35.9	42.1		
CR 4016	32	386	15.3	17.3	21.0	24.4	26.3	31.9	37.0	43.0	46.9	54.9		
CR 5014	35	562	22.1	25.1	30.0	35.4	38.3	46.2	53.6	62.4				
CR 5016	40	735	28.9	32.9	39.9	46.4	50.0	60.6	70.4	81.6				
CR 5018	45	931	36.6	41.6	50.5	58.8	63.4	76.8	89.2					
CR 6018	56	1750	69.1	78.4	95.2	111	120	145						
CR 6022	71	2370	93.1	105	128	149	161	195						
CR 8018	80	3880	153	174	211	246	265							
CR 8022	100	5580	219	249	302	352	379							
CR10020	110	8780	345	392	476	554								
CR12018	125	13200	519	590	716									
CR12022	140	17100	671	762										
CR16018	160	28600	1122											
CR16022	200	41700	1640											
CR20018	205	57000												
CR20022	260	71900												
CR24022	310	129000												
CR24026	380	157000												
CR32022	430	255000												
CR40020	470	494000												
CR40024	590	602000												
CR40028	700	717000												
Lubrication type														

Lubrication System I :
Apply grease regularly on a monthly basis.

Lubrication System II :
Apply grease regularly on a weekly basis, or mount the casing filled with grease.

Lubrication System III :
Mount the casing filled with grease.

Refer to page 189 for lubrication method.

Casing Construction

Casing

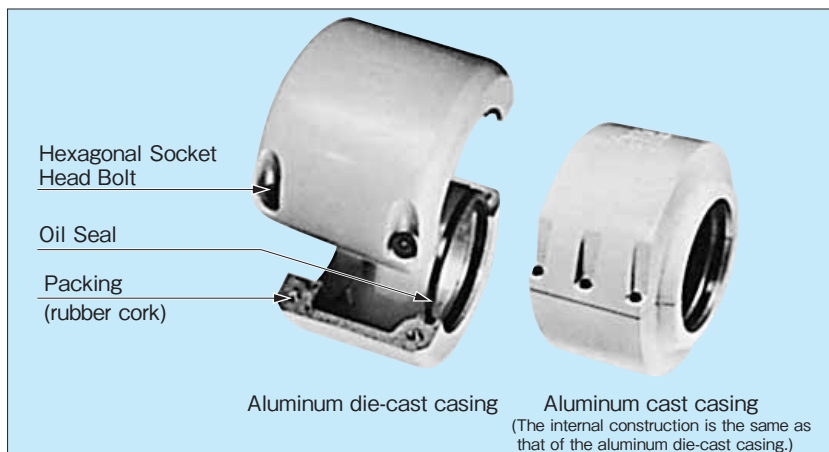
For ease of mounting and inspection, the casing can be separated at a right angle to the shaft. The mating part to the hub is finished precisely to hold the hub firmly with no eccentricity. Furthermore, the other hole has a trapezoidal groove into which an oil seal is inserted for the prevention of oil leakage while holding the sprocket boss flexibly so that the flexibility of the coupling will not be lost.

The coupling life is notably extended due to the prevention of both lubricant spatter and the infiltration of dust particles when installing the casing, which ensures effective lubrication. The casing protects the unit from corrosion and ensures safe operation.

If the coupling with casing is used under frequent start and stop operation or large vibration, please consult TSUBAKI.

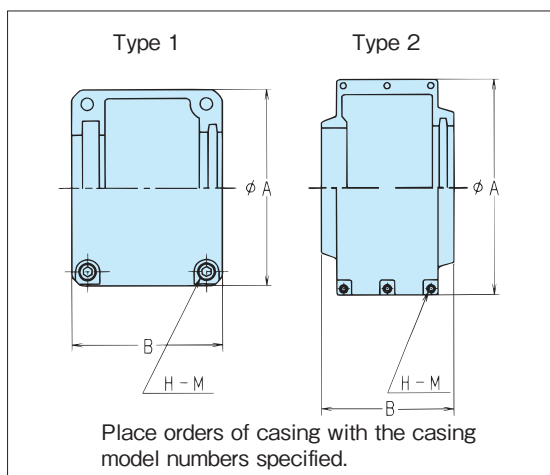
Be sure to mount the casing in the following cases.

- (1) The coupling is rotated at high speed (see the notes in the Kilowatt Ratings Table).
- (2) The coupling is used in an abrasive atmosphere, such as a place with dust and dirt.
- (3) The coupling is used in a corrosive atmosphere, such as a humid place.



Casing (K)

Unit: mm



Coating specifications:

Aluminum die-cast casings are bake coated with melanic resin. Aluminum cast casings are bake coated with acrylic resin.

Coating color: Munsell 8.1YR7.6/15.2 orange yellow

Product code	Model no.	Type	Inertia (kg·m ²)	GD ² (kgf·m ²)	A	B	H-M	Oil seal	Casing material	Approx. mass (kg)
H510030	CR 3812K	1	1.55 × 10 ⁻⁴	{6.18 × 10 ⁻⁴ }	59	61	4-M5	Special type	Aluminum die-cast	0.19
H510031	CR 4012K		5.13 × 10 ⁻⁴	{2.05 × 10 ⁻³ }	75					0.33
H510032	CR 4014K		6.53 × 10 ⁻⁴	{2.61 × 10 ⁻³ }	84	75				0.38
H510033	CR 4016K		8.58 × 10 ⁻⁴	{3.43 × 10 ⁻³ }	92					0.41
H510034	CR 5014K		1.29 × 10 ⁻³	{5.16 × 10 ⁻³ }	101					0.50
H510035	CR 5016K		1.81 × 10 ⁻³	{7.25 × 10 ⁻³ }	111	85				0.58
H510036	CR 5018K		2.35 × 10 ⁻³	{9.40 × 10 ⁻³ }	122					0.66
H510037	CR 6018K		4.85 × 10 ⁻³	{1.94 × 10 ⁻² }	142	106				0.96
H510038	CR 6022K		9.35 × 10 ⁻³	{3.74 × 10 ⁻² }	167					1.3
H510039	CR 8018K		1.86 × 10 ⁻²	{7.43 × 10 ⁻² }	186	130	4-M8			2.0
H510040	CR 8022K	2	3.30 × 10 ⁻²	{1.32 × 10 ⁻¹ }	220			Special type	Aluminum alloy	2.5
H510041	CR10020K		6.60 × 10 ⁻²	{2.64 × 10 ⁻¹ }	250	148				3.7
H510042	CR12018K		7.63 × 10 ⁻²	{3.05 × 10 ⁻¹ }	307	181	※			3.3
H510043	CR12022K		1.29 × 10 ⁻¹	{5.15 × 10 ⁻¹ }	357		4-M10			3.9
H510044	CR16018K		5.73 × 10 ⁻¹	{2.29 }	406	250				14.7
H510045	CR16022K		1.11	{4.45 }	472					17.2
H510046	CR20018K		1.42	{5.67 }	496	280				22.2
H510047	CR20022K		2.41	{9.66 }	578					26.6

Notes: 1. The casings of the items in regular typeface are made to order.

2. The ZF type oil seal is made by NOK Co.

3. The item marked ※ has 4 bolts and not 6, as indicated on the drawing.

4. Refer to page 190 of service parts for the bolt length.

Selection

1. Operating Conditions Required for Selection

- (1) Daily operating hours
- (2) Load characteristics and type of motor
- (3) Transmission power (kW) and rotation speed (r/min) or torque (N·m)
- (4) Outer diameters of both shafts

2. Selection Method

- (1) Obtain the service factor from the table of service factors on the right-hand side according to the operating conditions.
- (2) Multiply the transmission power (or torque) by the service factor and obtain the correction transmission power (or correction transmission torque).
- (3) Select from the kilowatt ratings table a coupling that satisfy the corrected transmission power (or correction transmission torque) at the operating rotation speed.
- (4) If the required shaft diameter exceeds the maximum shaft diameter of the coupling selected, adopt a coupling a size larger.
- (5) The contact surface pressure may become excessive if a standard key is used. Calculate the contact surface pressure of the key and consider the necessity of using a special key or spline.
- (6) If the coupling is directly connected to the motor, select the coupling from the following table of recommended models for direct motor connection.

Table of Service Factors (SF)

Load Characteristics	Source of Power		
	Motor Turbine	Steam engine Gasoline engine (4 cylinders)	Diesel engine Gas engine
Low fluctuation, low impact, low starting torque, and no reverse rotation	1.0	1.5	2.0
Middle fluctuation, middle impact, and no reverse rotation (standard load)	1.5	2.0	2.5
High fluctuation, high impact, reverse rotation, and loaded starting	2.0	2.5	3.0

Note1. An increase according to the operating hour of the chain coupling (provided that the rotation speed is 50 r/min. or more).

8 to 16 hours/day: 0.5

16 hours or more/day: 1.0

2. The above table shows rough service factor standards. Decide on the service factor according to the operating conditions.

Reference: Relationship between torque, transmission, and rotation speed

$$T = \frac{60000 \times P}{2 \pi \times n} \quad \left\{ T = \frac{974 \times P}{n} \right\}$$

T : Torque N · m

P : Transmission power kW

n : Rotation speed r/min

3. Recommended Coupling Models for Direct Motor Connection

Motor Output kW	Motor shaft dia. mm	Model no.
0.1 0.2	11	CR3812
0.4	14	CR3812
0.75	19	CR4012
1.5	24	CR4014
2.2 3.7	28	CR4014

Note: The above motor is of 4-pole type with a totally enclosed external fan.

Motor capacity kW	Motor shaft dia. mm	Model no.
5.5 7.5	38	CR5016
11 15	42	CR5018
22	48	CR6018
30	55	CR6018
37 45	60	CR6022

4. Backlash

Model no.	CR3812	CR4012	CR4014	CR4016	CR5014	CR5016	CR5018	CR6018	CR6022
Backlash (Angle°)	±1.02	±1.06	±0.90	±0.79	±0.86	±0.75	±0.66	±0.62	±0.51

Model no.	CR8018	CR8022	CR10020	CR12018	CR12022	CR16018	CR16022	CR20018	CR20022
Backlash (Angle°)	±0.58	±0.47	±0.50	±0.42	±0.34	±0.31	±0.26	±0.33	±0.27

Note: The above figures are calculated value and not guaranteed. Consult your TSUBAKI representative for the backlash angles of other models.

5. Operating Ambient Temperature

– 10°C ~ 60°C

If the operating ambient temperature range is other than the above, refer to page 190 for information on special applications.

Fit Bore Series (with Finished Bore)

Processing Details

※Different processing details can be set on both sides separately.

Finished bore

Select the desired dimension from table 1 and the tolerance from table 2.

Keyway

Select the desired dimension and the tolerance from table 2.

Tap hole

Check with table 3. (Two points on a single side of the hub with setscrews provided)

Time for Delivery

	Bore tolerance	Keyway tolerance	Time for Delivery
Standard specifications	H7	Js9	Short lead-time (within a week)
Semi-standard specifications	R7, P7, N7, M7, Js7, G7	P9, F7, E9	1 week

Ordering Information on Fit Bore Series

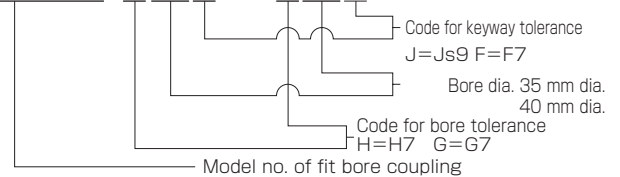
■ Place each order with the product code and model number specified.

Product code	Model no.	Quantity	Unit
H510019	CR3812FB-H14J×H16J	10	K (units)

● Model No.

Fit Bore Series (Body)

CR6022FB-H35J × G40F



※The casing is sold separately.

List of Applicable bore (Table 1)

Product code	Model no.	Bore dia. mm																	
		14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45
H510019	CR3812FB-□□□□×□□□□	●	●	●															
H510020	CR4012FB-□□□□×□□□□	●	●	●	●	●	●	●											
H510021	CR4014FB-□□□□×□□□□	●	●	●	●	●	●	●	●	●	●								
H510022	CR4016FB-□□□□×□□□□			●	●	●	●	●	●	●	●	●	●	●					
H510023	CR5014FB-□□□□×□□□□			●	●	●	●	●	●	●	●	●	●	●	●				
H510024	CR5016FB-□□□□×□□□□					●	●	●	●	●	●	●	●	●	●	●			
H510025	CR5018FB-□□□□×□□□□					●	●	●	●	●	●	●	●	●	●	●	●		
H510026	CR6018FB-□□□□×□□□□							●	●	●	●	●	●	●	●	●	●	●	●
H510027	CR6022FB-□□□□×□□□□								●	●	●	●	●	●	●	●	●	●	●
H510028	CR8018FB-□□□□×□□□□												●	●	●	●	●	●	●
H510029	CR8022FB-□□□□×□□□□															●	●	●	●
New JIS key width mm		5	5	5	5	6	6	6	6	8	8	8	8	10	10	10	12	12	14
Old JIS key width mm		5	5	5	5	5	5	5	7	7	7	7	7	10	10	10	10	12	12

※Fill out the boxes with the code for the bore tolerance, bore diameter, and code for the keyway tolerance in sequence (see the codes in table 2).

List of Bore and Keyway Tolerances (Table 2)

	Bore tolerance (Shaft tolerance : h6)							Bore dia. d (mm)	New JIS parallel key JISB1301-1996					Old JIS parallel key					Bore dia. φ d (mm)		
	Press fitting		Middle fitting			Loose fitting			Keyway width	Tolerance		Keyway depth	Setscrew	Keyway width	Tolerance		Keyway depth	Setscrew			
Tolerance symbol	R7	P7	N7	M7	Js7	G7	H7			Standard type Js9	Press fit P9				Class 1 F7	Class 2 E9				Class 1 F7	Class 2 E9
Tolerance code	R	P	N	M	J	G	H			KW	J				P	KH				KW	F
Tolerance range mm	-0.016 -0.034	-0.011 -0.029	-0.005 -0.023	0 -0.018	±0.009	+0.024 +0.006	+0.018 0	14	5	±0.0150	-0.012 -0.042	2.3	M5	5	+0.022 +0.010	+0.050 +0.020	2	M5	14		
								15											15		
								16											16		
								17											17		
	-0.020 -0.041	-0.014 -0.035	-0.007 -0.028	0 -0.021	±0.0105	+0.028 +0.007	+0.021 0	18	6	±0.0180	-0.015 -0.051	2.8	M6	7	+0.028 +0.013	+0.061 +0.025	3	M6	18		
								19											19		
								20											20		
								22											22		
	-0.025 -0.050	-0.017 -0.042	-0.008 -0.033	0 -0.025	±0.0125	+0.034 +0.009	+0.025 0	24	8	±0.0215	-0.018 -0.061	3.3	M8	10	+0.034 +0.016	+0.075 +0.032	3.5	M8	24		
								25											25		
								28											28		
								30											30		
	-0.030 -0.060	-0.021 -0.051	-0.009 -0.039	0 -0.030	±0.015	+0.040 +0.010	+0.030 0	32	10	±0.0215	-0.018 -0.061	3.8	M10	12	+0.034 +0.016	+0.075 +0.032	3.5	M8	32		
								35											35		
								38											38		
								40											40		
	-0.030 -0.060	-0.021 -0.051	-0.009 -0.039	0 -0.030	±0.015	+0.040 +0.010	+0.030 0	42	12	±0.0215	-0.018 -0.061	4.3	M10	15	+0.034 +0.016	+0.075 +0.032	5	M10	42		
								45											45		
								48											48		
								50											50		
	-0.030 -0.060	-0.021 -0.051	-0.009 -0.039	0 -0.030	±0.015	+0.040 +0.010	+0.030 0	55	16	±0.0215	-0.018 -0.061	4.4	M10	18	+0.034 +0.016	+0.075 +0.032	6	M10	55		
								60											60		
								65											65		

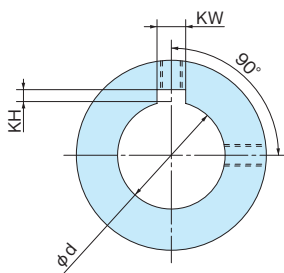
Note: Refer to the previous page for the dimensions of the body and casings. KW and KH dimensions are provided in the type information on the next page.

List of Set Screw Positional Relationships (Table 3)

Bore dia. d mm	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65
Setscrew	M5	M5	M5	M5	M6	M6	M6	M6	M6	M6	M6	M6	M8	M8	M8	M8	M8	M8	M8	M8	M10	M10	M10
Old JIS key					M5	M5	M5																
CR3812FB																							
CR4012FB																							
CR4014FB																							
CR4016FB																							
CR5014FB																							
CR5016FB																							
CR5018FB																							
CR6018FB																							
CR6022FB																							
CR8018FB																							
CR8022FB																							

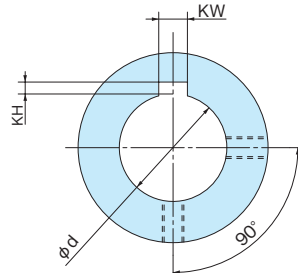
Type I

On keyway and 90° side



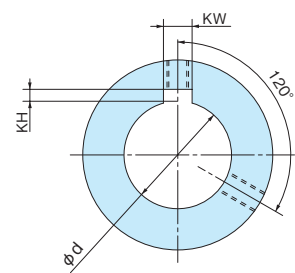
Type II

90° side and 180° side from keyway



Type III

On keyway and 120° side



Lubrication

Lubrication

The following three lubrication systems are recommended when using Roller Chain Couplings. The choice depends on the operating speed. (Refer to the Kilowatt Ratings Table).

Lubrication System I

Apply grease regularly on a monthly basis.

Lubrication System II

Apply grease regularly on a weekly basis, or mount the casing filled with grease.

Lubrication System III

Mount the casing filled with grease. For System III, it is especially important to use high-grade grease because of grease stick to the inner surface of the case due to centrifugal force, resulting in poor lubrication. The following types of grease are recommended:

Manufacturer	Grease name
Mobil	Mobil Plex EP No. 1 or 2
Shell	Alvania EP No. 1 or 2
Esso	Lititan EP No. 1 or 2

* Consistency: NLGI No. 1 or 2

Grease Change Interval for Lubrication System III

Operating conditions	Grease change interval	
	First change	Change interval after first change
Over ½ max. speed	1000hrs.	2000hrs.
Less than ½ max. speed	2000hrs.	4000hrs.

The amount of grease to apply is shown in the table below. If these amounts are adhered to, there will be slight leakage during initial operation, but this will soon stop.

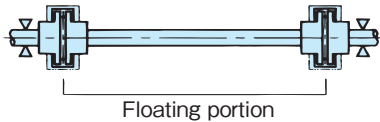
Coupling no.	Amount of grease (kg)	Coupling no.	Amount of grease (kg)
CR 3812	0.04	CR 8018	0.6
CR 4012	0.07	CR 8022	0.8
CR 4014	0.08	CR10020	1.4
CR 4016	0.10	CR12018	2.6
CR 5014	0.12	CR12022	3.4
CR 5016	0.14	CR16018	6.6
CR 5018	0.20	CR16022	8.0
CR 6018	0.32	CR20018	10.1
CR 6022	0.40	CR20022	12.2

Special Use and Service Parts

Special Use

Floating Shaft Type

The standard product can be used as a floating shaft type as shown in the illustration below if there is a distance between applicable devices, provided that the shaft is in horizontal operation with minimal errors under the following limited operating conditions.



Operating conditions

1. The shaft is in horizontal operation.
2. The shaft in operation does not rotate in the reverse direction. The shaft may rotate in the reverse direction only after the shaft comes to a perfect stop.
3. The mounting errors are within the following ranges.

Angle error α : 0.5° max.

Parallel error ε : 1% max. of chain pitch

4. The maximum operating rotation speed and the permissible mass of the floating portion are within the ranges specified in the table.
5. Decide the length and diameter of the shaft in comparison with equivalent standard machinery parts.

Apply standard permissible transmission torque.

Model no.	Permissible mass of floating portion (kg)	Max. operating rotation speed (r/min)
CR 3812	19	250
CR 4012	36	250
CR 4014	35	200
CR 4016	35	200
CR 5014	62	150
CR 5016	62	150
CR 5018	61	150
CR 6018	83	100
CR 6022	79	100
CR 8011	136	50
CR 8022	128	50

Other Types for Special Use

Specifications	Applicable model	Content	Parts different from those of standard product	Time for Delivery
Heat resistant	CR4012~CR10020 (Consult your TSUBAKI representative for other types whenever required.)	Used if the operating ambient temperature is 60°C to 150°C.	E.g., oil seal, packing, body, and casing modification	3W
Cold resistant		Used if the operating ambient temperature is -10°C to -40°C. Consult your TSUBAKI representative for the selection of models.	E.g., oil seal and main component (chain and sprocket)	4W
Casing rotation stopper (with pin)		To prevent grease leakage with the casing rotation stopper because the operation of the chain coupling is start and stop frequently under horizontal use.	E.g., body and casing modification	3W
Vertical use		Used to prevent grease leakage from the casing if the chain coupling is mounted vertically.	E.g., body and casing modification	3W

Service Parts

Use the following dedicated parts at the time of servicing.

Service Parts for Roller Chain Coupling

Part name (Symbol)	Model legend	Content
Dedicated roller chain (C)	CR3812 <u>C</u>	Dedicated two strand roller chains and the joint pin specified in this table are provided.
Joint pin (JP)	CR3812 <u>JP</u>	A joint pin is provided along with a clip or cotter pin for retaining.
Oil seal (OR)	CR3812 <u>OR</u>	A dedicated rubber oil seal fit into the casing. The CR20018 or later ones are made of felt.
Grommet (OS)	CD3812 <u>OS</u>	A cork seat attached to the matching surface of the casing.

Sizes of Hexagonal Head Bolts for Casing

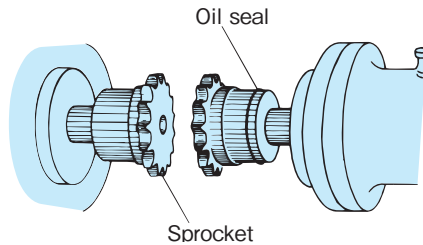
Model no.	Size	Model no.	Size
CR 3812	M 5×10	CR 8018	M 8×25
CR 4012	M 6×14	CR 8022	M 8×28
CR 4014	M 6×18	CR10020	M 8×28
CR 4016	M 6×18	CR12018	M10×35
CR 5014	M 6×18	CR12022	M10×35
CR 5016	M 6×18	CR16018	M10×45
CR 5018	M 6×18	CR16022	M10×45
CR 6018	M 8×25	CR20018	M10×45
CR 6022	M 8×25	CR20022	M10×45

- Note 1. Each size in the table indicate the nominal screw diameter and length of the corresponding bolt.
 2. The material is SCM435, strength grade of 12.9.

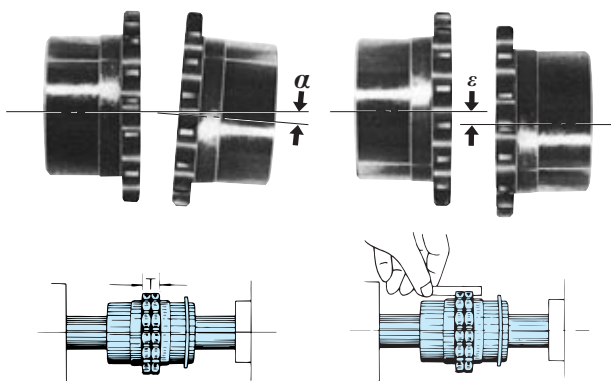
Installation

Installation

1. Place the oil seal on either the left or right sprocket.
(Place the oil seal on upper side sprocket when vertical use.)



2. Bring the sprocket faces close together and correct the angular and offset misalignment.

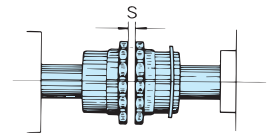


Adjust the angular misalignment (α) so that the dimension "T" is the same around the circumference of the sprockets. The allowable angular misalignment (α) is 1° .

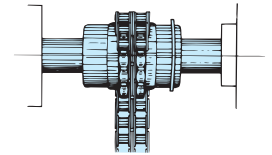
Place a straight edge at the bottom of the corresponding teeth of the two sprockets and adjust in order to minimize the offset misalignment. The allowable offset misalignment (ϵ) is 2% of the chain pitch.

When the sprocket speed is 1/3 or more of the maximum speed, the allowable angular and offset misalignments are 0.5° and 1% of the chain pitch.

3. Measure the distance "S" between the sprocket faces and firmly fasten the set bolt (refer to the table of dimensions).



4. Fill the grease into the space "S" and lubricate the chain and teeth with grease, then wrap the chain around both sprockets and fix with the joint pin. Insert the joint pin from oil seal side and confirm that the clip or cotter pin is securely fastened at counter oil seal side.
5. Fill the required quantity of grease into both sides of the casing and fasten them firmly. There will be slight leakage during initial operation, but this will soon stop. If the grease still leaks, check the conditions of installation.

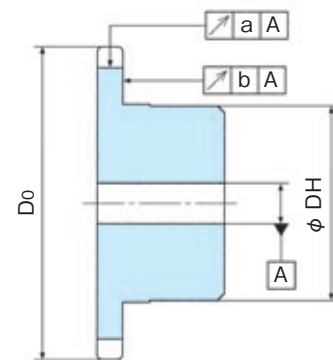


Precautions for Additional Processing Work

Additional processing work on bore and keyway

In the case of processing and finishing the keyway and bore of a purchased product provided with a pilot bore (with no bore processed), perform the work based on the outer circumference of the hub. Be careful not to degrade tooth runout "a" or "b" in that case.

Do not perform additional processing work on the teeth and outer circumference of the hub.



Permissible Misalignment

Model no.	CR3812	CR4012	CR4014	CR4016	CR5014	CR5016	CR5018	CR6018	CR6022
Permissible offset error (ϵ) mm	0.190	0.254	0.254	0.254	0.318	0.318	0.318	0.381	0.381
Permissible angular error (α)°	1	1	1	1	1	1	1	1	1
Permissible distance error (mm)	*	S±0.68	S±0.68	S±0.68	S±0.88	S±0.88	S±0.88	S±1.02	S±1.02

Model no.	CR8018	CR8022	CR10020	CR12018	CR12022	CR16018	CR16022	CR20018	CR20022
Permissible offset error (ϵ) mm	0.508	0.508	0.635	0.762	0.762	1.016	1.016	1.270	1.270
Permissible angular error (α)°	1	1	1	1	1	1	1	1	1
Permissible distance error (mm)	S±1.32	S±1.32	S±1.52	S±2.02	S±2.02	S±2.52	S±2.52	*	*

Note 1. Consult your TSUBAKI representative for the asterisk-marked values.

2. Each permissible error is acceptable on the condition that other errors are all zero.

Nylon Chain Couplings

■ Features

Corrosion Resistance

The TSUBAKI Nylon Chain Coupling is recommended where corrosion is a problem.

No Lubrication

Keeps your work environment clean without the dirt-catching problems caused by grease.

Quiet Operation

Contact between metal and nylon allows for quieter running than metal couplings.

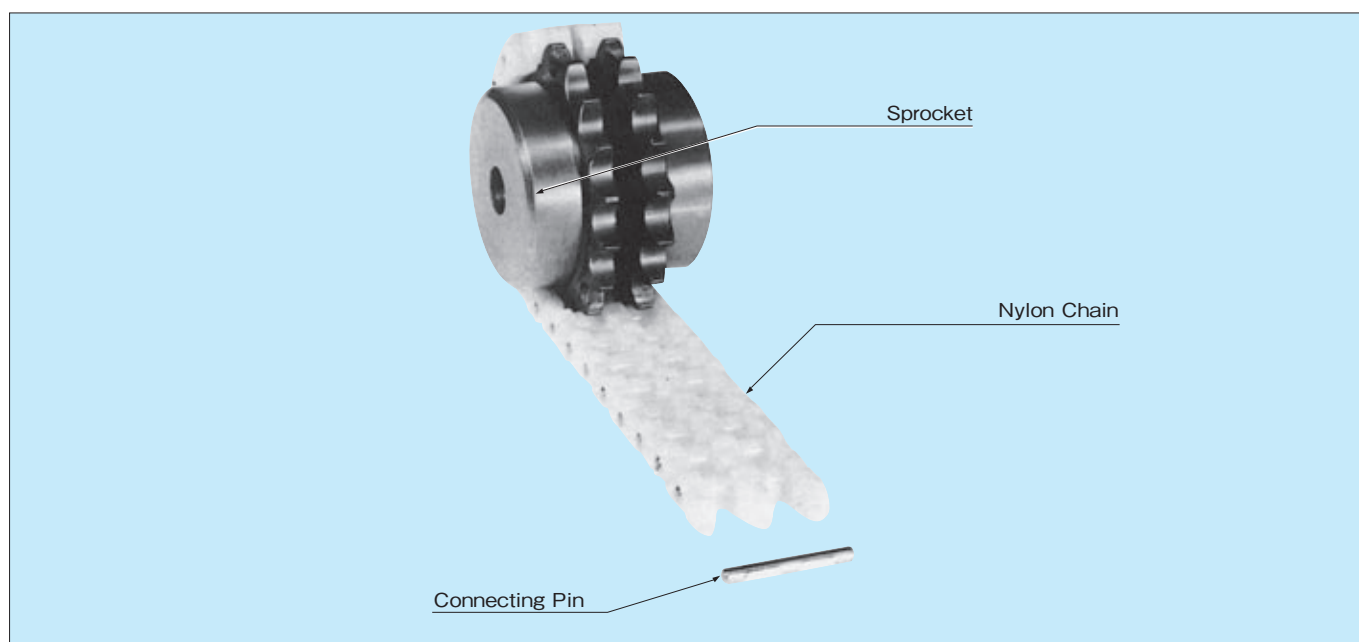
Economical

Low installation and maintenance costs equal big savings.

Easy Assembly and Disassembly

■ Construction

The combination of chain and sprocket creates the absorption capacity for angular and offset misalignment..



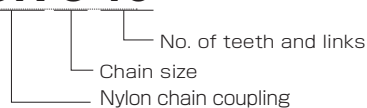
Ordering Information on Nylon Chain Couplings

- Place each order with the product code and model number.

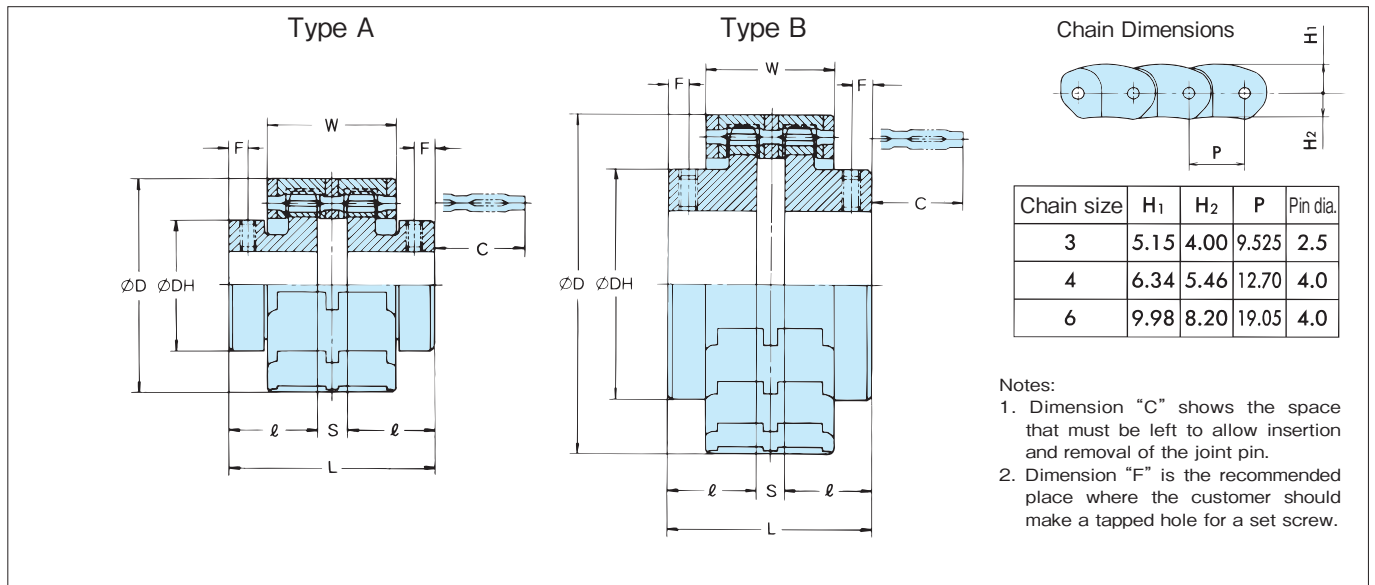
Product code	Model no.	Quantity	Unit
H520010	CN310	10	K (units)

- Model No.

CN 3 10



Dimensions



Unit: mm																	
Product code	Model no.	Type	Bore dia.		Inertia × 10 ⁻³ kg · m ²	GD ² × 10 ⁻³ { kgf · m ² }	D	DH	L	R	S	W	F	C	Approx. mass kg		
			Pilot bore	Max. bore													
H520001	CN310	A	8.0	12.0	0.025	{ 0.10 }	39.6	25.0	46.0	20.0	6.0	23.2	6.0	12.3	0.2		
H520002	CN311			14.0	0.030	{ 0.12 }	42.7	27.0							0.3		
H520003	CN312			16.5	0.043	{ 0.17 }	45.8	31.0									
H520004	CN313		18.0	0.055	{ 0.22 }	48.9	32.0										
H520005	CN314	B	9.5	16.5	0.063	{ 0.25 }	52.0	30.0								0.4	
H520006	CN315			19.0	0.093	{ 0.37 }	55.1	35.0									
H520007	CN316			20.0	0.12	{ 0.46 }	58.2	37.0							0.5		
H520008	CN317			24.0	0.16	{ 0.62 }	61.3	41.0									
H520009	CN410	A	9.5	16.5	0.080	{ 0.32 }	51.8	32.0	51.2	22.0	7.2	32.0	5.0	22.8	0.3		
H520010	CN411			20.0	0.12	{ 0.47 }	55.9	37.0							0.4		
H520011	CN412			22.0	0.16	{ 0.64 }	60.1	40.0							0.5		
H520012	CN413	B	12.5	20.0	0.20	{ 0.78 }	64.2	37.0					6.0			0.6	
H520013	CN414			24.0	0.27	{ 1.07 }	68.3	42.0							0.7		
H520014	CN415			28.5	0.36	{ 1.42 }	72.4	46.0							0.9		
H520015	CN416			30.0	0.49	{ 1.84 }	76.5	50.0							1.0		
H520016	CN417			32.0	0.59	{ 2.35 }	80.6	54.0							1.1		
H520017	CN418			35.0	0.73	{ 2.90 }	84.7	57.0							1.3		
H520018	CN419			39.5	0.93	{ 3.71 }	88.8	62.0							1.2		
H520019	CN610	A	12.5	30.0	0.58	{ 2.33 }	78.6	49.0	73.5	32.0	9.5	47.5	8.0	35.0	1.2		
H520020	CN611			32.0	0.81	{ 3.23 }	84.8	51.0							1.4		
H520021	CN612	B	16.0	32.0	1.07	{ 4.26 }	91.1	73.0							1.6		
H520022	CN613				35.0	1.46	{ 5.85 }								97.2	57.0	1.9
H520023	CN614				39.5	1.94	{ 7.75 }								103.4	62.0	2.2
H520024	CN615			45.5	2.55	{ 10.2 }	109.5	68.0							2.5		
H520025	CN616			47.5	3.28	{ 13.1 }	115.7	73.0							2.9		
H520026	CN617				3.88	{ 15.5 }	121.6								3.1		
H520027	CN618			55.0	5.75	{ 23.0 }	128.0	83.0							89.5	40.0	24.0
H520028	CN619					6.55	{ 26.2 }		134.1	4.6							

Note 1. All products with pilot bore are in stock. Products other than the above are made to order.
 2. Finished holes, keyway, and setscrew holes can be processed by request, provided that the processing charges will be claimed separately. (Standard bore tolerance will be H8 unless otherwise specified.)
 3. Inertia, GD², and approximately mass are based on pilot bore.
 4. Orders of nylon chains for replacement are accepted.

Kilowatt Ratings Table

unit: kw

Model no.	Max. bore dia. (mm)	Allowable torque for below 100 r/min (N·m)	Speed of rotation (r/min)																	
			100	200	300	400	500	600	700	800	900	1200	1500	1800	2000	2500	3000	3600	4000	5000
CN310	12.0	6.86	0.07	0.14	0.22	0.29	0.36	0.40	0.44	0.48	0.51	0.61	0.70	0.79	0.85	0.98	1.1	1.2	1.3	1.8
CN311	14.0	8.82	0.09	0.18	0.28	0.37	0.46	0.51	0.56	0.61	0.65	0.79	0.90	1.0	1.1	1.3	1.4	1.6	1.7	2.0
CN312	16.5	10.8	0.11	0.23	0.34	0.45	0.56	0.63	0.69	0.75	0.80	0.96	1.1	1.2	1.3	1.5	1.7	2.0	2.1	2.5
CN313	18.0	12.7	0.13	0.27	0.40	0.53	0.67	0.74	0.81	0.88	0.95	1.1	1.3	1.5	1.6	1.8	2.0	2.32	2.5	2.9
CN314	16.5	14.7	0.15	0.31	0.46	0.62	0.77	0.86	0.94	1.0	1.1	1.3	1.5	1.7	1.8	2.1	2.4	2.7	2.9	3.4
CN315	19.0	16.7	0.17	0.35	0.52	0.70	0.87	0.97	1.1	1.15	1.23	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.2	3.8
CN316	20.0	18.6	0.20	0.39	0.59	0.78	0.98	1.1	1.2	1.3	1.4	1.7	1.9	2.1	2.3	2.7	3.0	3.4	3.6	4.3
CN317	24.0	21.6	0.23	0.45	0.68	0.90	1.1	1.3	1.4	1.5	1.6	1.9	2.3	2.5	2.7	3.1	3.5	3.9	4.2	4.9
CN410	16.5	25.5	0.27	0.53	0.80	1.1	1.3	1.5	1.6	1.8	1.9	2.3	2.6	2.9	3.1	3.6	4.1	4.6	4.9	5.8
CN411	20.0	30.4	0.32	0.64	0.96	1.3	1.6	1.8	2.0	2.1	2.3	2.7	3.1	3.5	3.8	4.4	4.9	5.6	6.0	7.0
CN412	22.0	36.3	0.38	0.76	1.1	1.5	1.9	2.1	2.3	2.5	2.7	3.2	3.7	4.2	4.5	5.2	5.9	6.6	7.1	8.4
CN413	20.0	42.1	0.45	0.89	1.3	1.8	2.2	2.5	2.7	3.0	3.2	3.8	4.4	4.9	5.3	6.1	6.9	7.8	8.4	9.8
CN414	24.0	49.0	0.51	1.0	1.6	2.1	2.6	2.9	3.2	3.4	3.7	4.4	5.1	5.7	6.1	7.0	7.9	9.1	9.6	11.2
CN415	28.5	56.8	0.59	1.2	1.8	2.4	3.0	3.3	3.6	3.9	4.2	5.0	5.8	6.5	7.0	8.1	9.2	10.4	11.1	13.1
CN416	30.0	63.7	0.67	1.3	2.0	2.7	3.4	3.8	4.1	4.5	4.8	5.7	6.6	7.4	7.9	9.2	10.4	11.7	12.6	
CN417	32.0	72.5	0.76	1.5	2.3	3.0	3.8	4.2	4.6	5.0	5.4	6.5	7.4	8.4	8.9	10.3	11.6	13.2	14.2	
CN418	35.0	81.3	0.85	1.7	2.6	3.4	4.3	4.7	5.2	5.6	6.1	7.2	8.4	9.3	10.0	11.6	13.0	14.8	15.9	
CN419	39.5	90.2	0.95	1.9	2.8	3.8	4.7	5.3	5.8	6.3	6.7	8.1	9.2	10.4	11.2	12.9	14.5	16.5		
CN610	30.0	102	1.1	2.1	3.1	4.1	5.1	6.1	7.0	7.9	8.8	11.3	13.6	15.6	16.9	19.6	21.7	23.4	24.1	
CN611	32.0	117	1.2	2.4	3.6	4.7	5.8	6.9	8.0	9.0	10.0	12.8	15.3	17.6	19.0	21.8	24.0	25.6		
CN612	32.0	132	1.4	2.7	4.1	5.3	6.6	7.8	9.0	10.1	11.2	14.3	17.1	19.5	21.0	24.0	26.0	27.3		
CN613	35.0	149	1.6	3.1	4.5	6.0	7.4	8.7	10.0	11.2	12.5	15.8	18.8	21.3	22.8	25.8	27.7	28.5		
CN614	39.5	166	1.7	3.4	5.0	6.6	8.2	9.6	11.0	12.4	13.7	17.4	20.6	23.3	24.8	27.8	29.5			
CN615	45.5	181	1.9	3.8	5.6	7.3	9.0	10.6	12.1	13.6	15.0	18.9	22.3	25.1	26.7	29.6	31.0			
CN616	47.5	201	2.1	4.1	6.1	8.0	9.8	11.5	13.2	14.8	16.3	20.5	24.0	26.8	28.4	31.1	32.0			
CN617	47.5	219	2.3	4.5	6.6	8.6	10.6	12.5	14.3	16.0	17.6	21.9	25.6	28.4	29.9	32.2				
CN618	55.0	236	2.5	4.9	7.2	9.4	11.5	13.5	15.3	17.2	18.9	23.6	27.4	30.3	31.8	33.9				
CN619	55.0	255	2.7	5.2	7.7	10.0	12.3	14.4	16.4	18.3	20.2	24.9	28.7	31.5	32.8	34.1				

Selection

1. Operating Conditions Required for Selection

- (1) Daily operating hours
- (2) Load characteristics and type of motor
- (3) Transmission power (kW) and rotation speed (r/min) or torque (N·m)
- (4) Outer diameters of both shafts

2. Method of Selection

- (1) Determine the service factor on the service factor table on the right based on operating conditions.
- (2) Obtain the design kW (torque) by multiplying the kW to be transmitted by the service factor.

- (3) With the required speed, choose the coupling which satisfies the kW from the Kilowatt Ratings Table.
- (4) When the required shaft diameter exceeds the maximum bore diameter of the coupling chosen, use a coupling one size larger.
- (5) In the low speed range, the bearing pressure may be too great when using a standard key. In this case, consider whether or not it will be necessary to use a special key or spline bore by calculating key bearing pressure.
- (6) When choosing a coupling for direct connection to a motor, refer to the Direct Motor Connection Selection Table below.

Table of Service Factors (SF)

Load Characteristics	Source of Power		
	Motor Turbine	Steam engine Gasoline engine (4 cylinders)	Diesel engine Gas engine
Low fluctuation, low impact, low starting torque, and no reverse rotation	1.0	1.5	2.0
Middle fluctuation, middle impact, and no reverse rotation (standard load)	1.5	2.0	2.5
High fluctuation, high impact, reverse rotation, and loaded starting	2.0	2.5	3.0

- Note1. An increase according to the operating hour of the chain coupling (provided that the rotation speed is 50 r/min. or more).
8 to 16 hours/day: 0.5
16 hours or more/day: 1.0
2. The above table shows rough service factor standards. Decide on the service factor according to the operating conditions.

Recommended Coupling Models for Direct Motor Connection

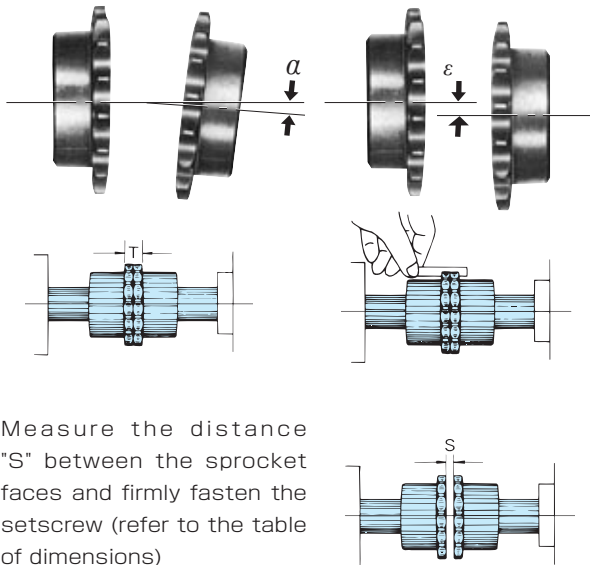
Motor output kW			Motor shaft dia. (mm)	Model no.
2P	4P	6P		
0.2	0.2	—	11	CN310
0.4	0.4	—	14	CN311
0.75	0.75	0.4	19	CN315
^{1.5} / _{2.2}	1.5	0.75	24	CN317
—	2.2	1.5	28	CN415
3.7	3.7	2.2	28	CN415
^{5.5} / _{7.5}	5.5	3.7	38	CN419
—	7.5	5.5	38	※CN614
¹¹ / ₁₅	11	7.5	42	※CN615
—	15	11	42	※CN616

- Notes: 1. Couplings marked ※ are not applicable to 2P motors.
2. This table applies to regular loads (service factors of 1 to 1.5)

Installation

Installation

1. Bring the sprocket faces close together and correct the angular and offset misalignment
Check for offset misalignment with a straight edge placed on the two sprockets as shown below.
Allowable offset misalignment (ε) is 0.1 mm.
Adjust the angular misalignment (α) so that the dimension "T" is the same around the circumference of the sprockets. The allowable angular misalignment (α) is 0.5°.



2. Measure the distance "S" between the sprocket faces and firmly fasten the setscrew (refer to the table of dimensions)
3. Wrap the chain around the sprockets and insert a joint pin.

Dismounting

Check that no torque is imposed on the coupling first. Then extract a pin (any pin will do), and dismount the nylon chain and sprocket.

Possible operating ambient temperature

– 5° C to 60° C

※ – 50°C to 120°C also available as made to order bases.
Consult your TSUBAKI representative.

Operational precautions

Installation of safety cover is recommended so that the fragments of the nylon chain on the coupling will not be dispersed if the nylon chain should be broken.

Precautions for modification

Bore and keyway modification

In the case of processing the shaft hole and key groove of a product with a prepared hole (i.e., a product with no finished shaft hole), be sure to process them on the basis of the circumference of the teeth as a reference. If the circumference of the hub is used as a reference in connection with the machinery or jaws, be sure to keep the permissible runout range of the teeth.

Safety Precautions

WARNING

Heed the information provided below for the prevention of danger.

- In the case of applying the product to machines that rotate at high speed or vibrate, be sure to provide hazard prevention apparatus (e.g., a safety cover) to protect the surrounding area from the risk of danger, such as the scattering of the components resulting from the loosening or falling of the components or damage to the components.
- Be sure to use the tightening bolts provided and do not use other bolts. The tightening bolts provided are of special high-strength type. Contact your dealer or TSUBAKI representative if they are missing.
- Follow the instructions below in the case of mounting, dismounting, maintaining, or inspecting the product.
- Wear suitable clothes and protective gear (e.g., safety glasses, gloves, and shoes) for the work.
- Be sure to turn off the main power switch of the equipment in use. Furthermore, take preventive measures so that the switch will not be turned on abruptly.
- Read and heed the instructions in the operation manual and catalog before conducting the work.
- If a load is always imposed on the application (e.g., hoisting equipment), eliminate the load or take appropriate measures to prevent the load from falling before performing maintenance/inspections. Do not disconnect the couplings of the shaft joints carelessly, or otherwise a fall accident may result.
- Follow your local safety regulations, if any.

CAUTION

Heed the information provided below for the prevention of danger.

- The components will be worn out or damaged according to the mounting accuracy and with an elapse of operating hours. Perform maintenance/inspections regularly while taking safety measures for the equipment side in advance.
- Do not apply torque wrenches with no torque adjustment scales to components that need to be tightened to specified torque values. Doing so may cause serious trouble. Moreover, do not use torque wrenches with the levers connected to pipes. Otherwise, proper tightening torque will not be obtained.
- If an accident is expected as a result of the loosening of the tightening bolts caused by the mounting, operating conditions, and environment of the equipment in use, take safety measures for the equipment side. Furthermore, regularly check the tightening of the bolts.
- Make sure that the operation manual is delivered to the end user.

Other Products



Various types of cams are available upon your request.

Please consult your TSUBAKI representative.



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